

APÊNDICE DIGITAL

Este apêndice virtual tem como objetivo mostrar os procedimentos de cálculos executados na elaboração da Tese de Doutorado de José de Pietro Neto intitulada “Uma Comparação Empírica do Desempenho Preditivo das Análises Fundamentalista, Gráfica e Econométrica no Mercado Acionário Brasileiro.” Apresentada a Universidade de Brasília como requisito para obtenção de grau de Doutor no PPGA/UnB. Linha de pesquisa: FINANÇAS.

Algumas partes da rotina não foram disponibilizadas devido aos direitos reservados do autor. A simbologia utilizada nos softwares de elaboração desta rotina pode diferir das apresentadas neste apêndice, considerando incompatibilidades de linguagens de programação. Todas as linhas de comando aqui contidas foram redigidas e editadas manualmente. Dúvidas, críticas ou sugestões devem ser feitas diretamente com o autor pelo e-mail: jpietron@gmail.com

```
% garch11
```

```
Ribov = SERIES (:,1);  
ibov = price2ret (Ribov);  
teste = SERIES (:,2);  
returns = price2ret (teste);  
meanreturns = mean(returns); T =  
size(returns,1);  
w= round(T/2);  
serie2 = teste (w:end,1); returns1 =  
returns (1:w,1); returns2 = returns  
(w:end,1); T1= size(returns1,1);  
T2 = size(returns2,1);
```

```
[Hpp11, PValuepp11, TStatpp11, CValuepp11] = ppTSTest(teste, [0:4], 0.05); % Teste de Philips e  
Perron – raiz unitaria
```

```
[hdf11, pValuedf11, tStatdf11, cValuedf11] = dfTSTest(teste, [0:4], [0.05], 't'); % Teste de  
Dickey Fuller – raiz unitaria
```

```
[HppA11, PValueppA11, TStatppA11, CValueppA11] = ppTSTest(returns1, [0:4], 0.05); % Teste de  
Philips e Perron – raiz unitaria
```

```
[hdfA11, pValuedfA11, tStatdfA11, cValuedfA11] = dfTSTest(returns1, [0:4], [0.05], 't'); % Teste de  
Dickey Fuller – raiz unitaria
```

```
[HppB11, PValueppB11, TStatppB11, CValueppB11] = ppTSTest(returns2, [0:4], 0.05); % Teste de  
Philips e Perron – raiz unitaria
```

```
[hdfB11, pValuedfB11, tStatdfB11, cValuedfB11] = dfTSTest(returns2, [0:4], [0.05], 't'); % Teste de  
Dickey Fuller – raiz unitaria
```

```
[CorrA11 pValuecorrA11 StatcorrA11 CriticalValuecorrA11] = ...  
lbqtest(returns1-mean(returns1),[20]',0.05); %presença de autocorrelação serial h=0 não há  
correlação significativa
```

```
[CorrA11 pValuecorrA11 StatcorrA11 CriticalValuecorrA11];
```

```
[HA11, pValueA11, StatA11, CriticalValueA11] = ...  
archtest(returns1-mean(returns1),[20]',0.05); %presença de efeito arch h=0 não existe efeito  
arch
```

```
[HA11, pValueA11, StatA11, CriticalValueA11];
```

```
m11 = garchset('Distribution', 'T' , 'P', 1, 'Q', 1, ...  
'VarianceModel', 'GARCH', 'Display','off');
```

```
[m11, errors11, LLF11, residuals11, sigmas11] = garchfit(m11, returns1);  
garchdisp(m11, errors11) % Display the estimation results
```

```

[P11, DW11] = dwtest(residuals11,returns1); % durbin Watson
mAA11 = garchcount(m11); % conta parâmetros
[AIC11, BIC11] = aicbic(LLF11, mAA11,T); % Critérios de akaike e bayes

[CorrB11 pValuecorrB11 StatcorrB11 CriticalValuecorrB11] =...

lbqtest((residuals11./ sigmas11),[20]',0.05); % Presença de correlação serial nos resíduos do
modelo estimado

[CorrB11 pValuecorrB11 StatcorrB11 CriticalValuecorrB11];

[HB11, pValueB11, StatB11, CriticalValueB11] = ...
archtest((residuals11./ sigmas11),[20]',0.05); %presença de efeito arch nos resíduos

[HB11, pValueB11, StatB11, CriticalValueB11];
standardizedResiduals11 = residuals11 ./ sigmas11; % padronização de resíduos
rand('state', 0) % iniciar números aleatórios para reprodução em massa – critério
modificado do algoritmo de Marsaglia

nTrials = T2; % número de tentativas independentes e aleatórias
horizon = 10; % horizonte de previsão da variância
bootstrappedResiduals11 = standardizedResiduals11 (unidrnd(T2, horizon, nTrials));
preResidual11 = residuals11 ((T2-4):end); % pré amostra modelo de resíduos
preSigma11 = sigmas11 ((T2-4):end); % pré amostra de volatilidades preReturn11 =
returns1((T2-4):end); % retornos pré-definidos
[dummy11, dummy11, ...
previsao10dias11] = garchsim(m11, horizon, nTrials, ...
bootstrappedResiduals11 , [], returns2, ...
preResidual11, preSigma11, preReturn11); % matriz de previsão condicionada a primeira série

previsao11 = previsao10dias11'; % previsão 10 passos a frente
prevA11 = previsao11 (:,1); % séries individuais de previsão prevB11
= previsao11 (:,2);
prevC11 = previsao11 (:,3);

prevD11 = previsao11 (:,4);
prevE11 = previsao11 (:,5);
prevF11 = previsao11 (:,6);
prevG11 = previsao11 (:,7);
prevH11 = previsao11 (:,8);
prevI11 = previsao11 (:,9);
prevJ11 = previsao11 (:,10);
mseA11 = mse (returns2-prevA11); % Cálculo do erro mínimo quadrado
mseB11 = mse (returns2-prevB11);
mseC11 = mse (returns2-prevC11);
mseD11 = mse (returns2-prevD11);
mseE11= mse (returns2-prevE11);
mseF11 = mse (returns2-prevF11);
mseG11 = mse (returns2-prevG11);
mseH11 = mse (returns2-prevH11);
mseI11 = mse (returns2-prevI11); mseJ11
= mse (returns2-prevJ11);

```

```

maeA11 = mae (returns2-prevA11); % Cálculo do erro absoluto médio
maeB11 = mae (returns2-prevB11);
maeC11 = mae (returns2-prevC11);
maeD11 = mae (returns2-prevD11);
maeE11 = mae (returns2-prevE11);
maeF11 = mae (returns2-prevF11);
maeG11 = mae (returns2-prevG11);
maeH11 = mae (returns2-prevH11);
maeI11 = mae (returns2-prevI11);
maeJ11 = mae (returns2-prevJ11);
% garch 12

[Hpp12, PValuepp12, TStatpp12, CValuepp12] = ppTSTest(teste, [0:4], 0.05); % Teste de Philips e
Perron – raiz unitaria

[hdf12, pValuedf12, tStatdf12, cValuedf12] = dfTSTest(teste, [0:4], [0.05], 't'); % Teste de
Dickey Fuller – raiz unitaria

[HppA12, PValueppA12, TStatppA12, CValueppA12] = ppTSTest(returns1, [0:4], 0.05); % Teste de
Philips e Perron – raiz unitaria

[hdfA12, pValuedfA12, tStatdfA12, cValuedfA12] = dfTSTest(returns1, [0:4], [0.05], 't'); % Teste de
Dickey Fuller – raiz unitaria

[HppB12, PValueppB12, TStatppB12, CValueppB12] = ppTSTest(returns2, [0:4], 0.05); % Teste de
Philips e Perron – raiz unitaria

[hdfB12, pValuedfB12, tStatdfB12, cValuedfB12] = dfTSTest(returns2, [0:4], [0.05], 't'); % Teste de
Dickey Fuller – raiz unitaria

[CorrA12 pValuecorrA12 StatcorrA12 CriticalValuecorrA12] =...

lbqtest(returns1-mean(returns1),[20]',0.05); %presença de autocorrelação serial h=0 não há
correlação significativa

[CorrA12 pValuecorrA12 StatcorrA12 CriticalValuecorrA12];
[HA12, pValueA12, StatA12, CriticalValueA12] = ...
archtest(returns1-mean(returns1),[20]',0.05); %presença de efeito arch h=0 não existe efeito
arch

[HA12, pValueA12, StatA12, CriticalValueA12];

m12 = garchset('Distribution' , 'T' , 'P', 2, 'Q', 1, ...

'VarianceModel', 'GARCH', 'Display','off');

[m12, errors12, LLF12, residuals12, sigmas12] = garchfit(m12, returns1);

garchdisp(m12, errors12) % Display the estimation results [P12,
DW12] = dwtest(residuals12,returns1); % durbin Watson mAA12 =
garchcount(m12); % conta parâmetros
[AIC12, BIC12] = aicbic(LLF12, mAA12,T); % Critérios de akaike e bayes

```

```

[CorrB12 pValuecorrB12 StatcorrB12 CriticalValuecorrB12] =...
lbqtest((residuals12./ sigmas12),[20]',0.05); % Presença de correlação serial nos resíduos do
modelo estimado

[CorrB12 pValuecorrB12 StatcorrB12 CriticalValuecorrB12];
[HB12, pValueB12, StatB12, CriticalValueB12] = ...
archtest((residuals12./ sigmas12),[20]',0.05); %presença de efeito arch nos resíduos

[HB12, pValueB12, StatB12, CriticalValueB12];
standardizedResiduals12 = residuals12 ./ sigmas12; % padronização de resíduos
rand('state', 0) % iniciar números aleatórios para reprodução em massa – critério
modificado do algoritmo de Marsaglia

nTrials = T2; % número de tentativas independentes e aleatórias
horizon = 10; % horizonte de previsão da variância
bootstrappedResiduals12 = standardizedResiduals12 (unidrnd(T2, horizon, nTrials));
preResidual12 = residuals12 ((T2-4):end); % pré amostra modelo de resíduos
preSigma12 = sigmas12 ((T2-4):end); % pré amostra de volatilidades preReturn12 =
returns1((T2-4):end); % retornos pré-definidos
[dummy12, dummy12, ...

previsao10dias12] = garchsim(m12, horizon, nTrials, ...
bootstrappedResiduals12 , [], returns2, ...
preResidual12, preSigma12, preReturn12); % matriz de previsão condicionada a primeira série

previsao12 = previsao10dias12'; % previsão 10 passos a frente
prevA12 = previsao12 (:,1); % séries individuais de previsão prevB12
= previsao12 (:,2);
prevC12 = previsao12 (:,3);
prevD12 = previsao12 (:,4);
prevE12 = previsao12 (:,5);
prevF12 = previsao12 (:,6);
prevG12 = previsao12 (:,7);
prevH12 = previsao12 (:,8);
prevI12 = previsao12 (:,9);
prevJ12 = previsao12 (:,10);
mseA12 = mse (returns2-prevA12); % Cálculo do erro mínimo quadrado
mseB12 = mse (returns2-prevB12);
mseC12 = mse (returns2-prevC12);
mseD12 = mse (returns2-prevD12);
mseE12= mse (returns2-prevE12);
mseF12 = mse (returns2-prevF12);
mseG12 = mse (returns2-prevG12);
mseH12 = mse (returns2-prevH12);
mseI12 = mse (returns2-prevI12); mseJ12
= mse (returns2-prevJ12);
maeA12 = mae (returns2-prevA12); % Cálculo do erro absoluto médio
maeB12 = mae (returns2-prevB12);
maeC12 = mae (returns2-prevC12);
maeD12 = mae (returns2-prevD12);
maeE12 = mae (returns2-prevE12);
maeF12 = mae (returns2-prevF12);

```

```

maeG12 = mae (returns2-prevG12);
maeH12 = mae (returns2-prevH12);
maeI12 = mae (returns2-prevI12);
maeJ12 = mae (returns2-prevJ12);
% garch 13

[Hpp13, PValuepp13, TStatpp13, CValuepp13] = ppTSTest(teste, [0:4], 0.05); % Teste de Philips e
Perron – raiz unitaria

[hdf13, pValuedf13, tStatdf13, cValuedf13] = dfTSTest(teste, [0:4], [0.05], 't'); % Teste de
Dickey Fuller – raiz unitaria

[HppA13, PValueppA13, TStatppA13, CValueppA13] = ppTSTest(returns1, [0:4], 0.05); % Teste de
Philips e Perron – raiz unitaria

[hdfA13, pValuedfA13, tStatdfA13, cValuedfA13] = dfTSTest(returns1, [0:4], [0.05], 't'); % Teste de
Dickey Fuller – raiz unitaria

[HppB13, PValueppB13, TStatppB13, CValueppB13] = ppTSTest(returns2, [0:4], 0.05); % Teste de
Philips e Perron – raiz unitaria

[hdfB13, pValuedfB13, tStatdfB13, cValuedfB13] = dfTSTest(returns2, [0:4], [0.05], 't'); % Teste de
Dickey Fuller – raiz unitaria
[CorrA13 pValuecorrA13 StatcorrA13 CriticalValuecorrA13] =...

lbqtest(returns1-mean(returns1),[20]',0.05); %presença de autocorrelação serial h=0 não há
correlação significativa

[CorrA13 pValuecorrA13 StatcorrA13 CriticalValuecorrA13];
[HA13, pValueA13, StatA13, CriticalValueA13] = ...
archtest(returns1-mean(returns1),[20]',0.05); %presença de efeito arch h=0 não existe efeito
arch

[HA13, pValueA13, StatA13, CriticalValueA13];

m13 = garchset('Distribution', 'T', 'P', 3, 'Q', 1, ...
'VarianceModel', 'GARCH', 'Display','off');

[m13, errors13, LLF13, residuals13, sigmas13] = garchfit(m13, returns1);

garchdisp(m13, errors13) % Display the estimation results [P13,
DW13] = dwtest(residuals13,returns1); % durbin Watson mAA13 =
garchcount(m13); % conta parâmetros
[AIC13, BIC13] = aicbic(LLF13, mAA13,T); % Critérios de akaike e bayes

[CorrB13 pValuecorrB13 StatcorrB13 CriticalValuecorrB13] =...

lbqtest((residuals13./ sigmas13),[20]',0.05); % Presença de correlação serial nos resíduos do
modelo estimado

[CorrB13 pValuecorrB13 StatcorrB13 CriticalValuecorrB13];
[HB13, pValueB13, StatB13, CriticalValueB13] = ...

```

```

archtest((residuals13./ sigmas13),[20]',0.05); %presença de efeito arch nos resíduos

[HB13, pValueB13, StatB13, CriticalValueB13];
standardizedResiduals13 = residuals13 ./ sigmas13; % padronização de resíduos
rand('state', 0) % iniciar números aleatórios para reprodução em massa – critério
modificado do algoritmo de Marsaglia

nTrials = T2; % número de tentativas independentes e aleatórias
horizon = 10; % horizonte de previsão da variância
bootstrappedResiduals13 = standardizedResiduals13 (unidrnd(T2, horizon, nTrials));
preResidual13 = residuals13 ((T2-4):end); % pré amostra modelo de resíduos
preSigma13 = sigmas13 ((T2-4):end); % pré amostra de volatilidades preReturn13 =
returns1((T2-4):end); % retornos pré-definidos
[dummy13, dummy13, ...
previsao10dias13] = garchsim(m13, horizon, nTrials, ...
bootstrappedResiduals13 , [], returns2, ...
preResidual13, preSigma13, preReturn13); % matriz de previsão condicionada a primeira série

previsao13 = previsao10dias13'; % previsão 10 passos a frente

prevA13 = previsao13 (:,1); % séries individuais de previsão
prevB13 = previsao13 (:,2);
prevC13 = previsao13 (:,3);
prevD13 = previsao13 (:,4);
prevE13 = previsao13 (:,5);
prevF13 = previsao13 (:,6);
prevG13 = previsao13 (:,7);
prevH13 = previsao13 (:,8);
prevI13 = previsao13 (:,9);
prevJ13 = previsao13 (:,10);
mseA13 = mse (returns2-prevA13); % Cálculo do erro mínimo quadrado
mseB13 = mse (returns2-prevB13);
mseC13 = mse (returns2-prevC13);
mseD13 = mse (returns2-prevD13);
mseE13= mse (returns2-prevE13);
mseF13 = mse (returns2-prevF13);
mseG13 = mse (returns2-prevG13);
mseH13 = mse (returns2-prevH13);
mseI13 = mse (returns2-prevI13); mseJ13
= mse (returns2-prevJ13);
maeA13 = mae (returns2-prevA13); % Cálculo do erro absoluto médio
maeB13 = mae (returns2-prevB13);
maeC13 = mae (returns2-prevC13);
maeD13 = mae (returns2-prevD13);
maeE13 = mae (returns2-prevE13);
maeF13 = mae (returns2-prevF13);
maeG13 = mae (returns2-prevG13);
maeH13 = mae (returns2-prevH13);
maeI13 = mae (returns2-prevI13);
maeJ13 = mae (returns2-prevJ13);
% garch 14

```

```
[Hpp14, PValuepp14, TStatpp14, CValuepp14] = ppTSTest(teste, [0:4], 0.05); % Teste de Philips e Perron – raiz unitaria
```

```
[hdf14, pValuedf14, tStatdf14, cValuedf14] = dfTSTest(teste, [0:4], [0.05], 't'); % Teste de Dickey Fuller – raiz unitaria
```

```
[HppA14, PValueppA14, TStatppA14, CValueppA14] = ppTSTest(returns1, [0:4], 0.05); % Teste de Philips e Perron – raiz unitaria
```

```
[hdfA14, pValuedfA14, tStatdfA14, cValuedfA14] = dfTSTest(returns1, [0:4], [0.05], 't'); % Teste de Dickey Fuller – raiz unitaria
```

```
[HppB14, PValueppB14, TStatppB14, CValueppB14] = ppTSTest(returns2, [0:4], 0.05); % Teste de Philips e Perron – raiz unitaria
```

```
[hdfB14, pValuedfB14, tStatdfB14, cValuedfB14] = dfTSTest(returns2, [0:4], [0.05], 't'); % Teste de Dickey Fuller – raiz unitaria
```

```
[CorrA14 pValuecorrA14 StatcorrA14 CriticalValuecorrA14] =...
```

```
lbqtest(returns1-mean(returns1),[20]',0.05); %presença de autocorrelação serial h=0 não há correlação significativa
```

```
[CorrA14 pValuecorrA14 StatcorrA14 CriticalValuecorrA14];
```

```
[HA14, pValueA14, StatA14, CriticalValueA14] = ...
```

```
archtest(returns1-mean(returns1),[20]',0.05); %presença de efeito arch h=0 não existe efeito arch
```

```
[HA14, pValueA14, StatA14, CriticalValueA14];
```

```
m14 = garchset('Distribution' , 'T' , 'P', 4, 'Q', 1, ...
```

```
'VarianceModel', 'GARCH', 'Display','off');
```

```
[m14, errors14, LLF14, residuals14, sigmas14] = garchfit(m14, returns1);
```

```
garchdisp(m14, errors14) % Display the estimation results [P14,
```

```
DW14] = dwtest(residuals14,returns1); % durbin Watson mAA14 =
```

```
garchcount(m14); % conta parâmetros
```

```
[AIC14, BIC14] = aicbic(LLF14, mAA14,T); % Critérios de akaike e bayes
```

```
[CorrB14 pValuecorrB14 StatcorrB14 CriticalValuecorrB14] =...
```

```
lbqtest((residuals14./ sigmas14),[20]',0.05); % Presença de correlação serial nos resíduos do modelo estimado
```

```
[CorrB14 pValuecorrB14 StatcorrB14 CriticalValuecorrB14];
```

```
[HB14, pValueB14, StatB14, CriticalValueB14] = ...
```

```
archtest((residuals14./ sigmas14),[20]',0.05); %presença de efeito arch nos resíduos
```

```
[HB14, pValueB14, StatB14, CriticalValueB14];
```

```
standardizedResiduals14 = residuals14 ./ sigmas14; % padronização de resíduos
```

```
rand('state', 0) % iniciar números aleatórios para reprodução em massa – critério
```


modificado do algoritmo de Marsaglia

```
nTrials = T2; % número de tentativas independentes e aleatórias
horizon = 10; % horizonte de previsão da variância
bootstrappedResiduals14 = standardizedResiduals14 (unidrnd(T2, horizon, nTrials));
preResidual14 = residuals14 ((T2-4):end); % pré amostra modelo de resíduos
preSigma14 = sigmas14 ((T2-4):end); % pré amostra de volatilidades preReturn14 =
returns1((T2-4):end); % retornos pré-definidos
[dummy14, dummy14, ...

previsao10dias14] = garchsim(m14, horizon, nTrials, ...
bootstrappedResiduals14, [], returns2, ...
preResidual14, preSigma14, preReturn14); % matriz de previsão condicionada a primeira série
previsao14 = previsao10dias14'; % previsão 10 passos a frente
prevA14 = previsao14 (:,1); % séries individuais de previsão
prevB14 = previsao14 (:,2);
prevC14 = previsao14 (:,3);
prevD14 = previsao14 (:,4);
prevE14 = previsao14 (:,5);
prevF14 = previsao14 (:,6);
prevG14 = previsao14 (:,7);
prevH14 = previsao14 (:,8);
prevI14 = previsao14 (:,9);
prevJ14 = previsao14 (:,10);

mseA14 = mse (returns2-prevA14); % Cálculo do erro mínimo quadrado
mseB14 = mse (returns2-prevB14);
mseC14 = mse (returns2-prevC14);
mseD14 = mse (returns2-prevD14);
mseE14= mse (returns2-prevE14);
mseF14 = mse (returns2-prevF14);
mseG14 = mse (returns2-prevG14);
mseH14 = mse (returns2-prevH14);
mseI14 = mse (returns2-prevI14); mseJ14
= mse (returns2-prevJ14);
maeA14 = mae (returns2-prevA14); % Cálculo do erro absoluto médio
maeB14 = mae (returns2-prevB14);
maeC14 = mae (returns2-prevC14);
maeD14 = mae (returns2-prevD14);
maeE14 = mae (returns2-prevE14);
maeF14 = mae (returns2-prevF14);
maeG14 = mae (returns2-prevG14);
maeH14 = mae (returns2-prevH14);
maeI14 = mae (returns2-prevI14);
maeJ14 = mae (returns2-prevJ14);
% garch 21

[Hpp21, PValuepp21, TStatpp21, CValuepp21] = ppTSTest(teste, [0:4], 0.05); % Teste de Philips e
Perron – raiz unitaria

[hdf21, pValuedf21, tStatdf21, cValuedf21] = dfTSTest(teste, [0:4], [0.05], 't'); % Teste de
Dickey Fuller – raiz unitaria
```

```
[HppA21, PValueppA21, TStatppA21, CValueppA21] = ppTSTest(returns1, [0:4], 0.05); % Teste de Philips e Perron – raiz unitaria
```

```
[hdfA21, pValuedfA21, tStatdfA21, cValuedfA21] = dfTSTest(returns1, [0:4], [0.05], 't'); % Teste de Dickey Fuller – raiz unitaria
```

```
[HppB21, PValueppB21, TStatppB21, CValueppB21] = ppTSTest(returns2, [0:4], 0.05); % Teste de Philips e Perron – raiz unitaria
```

```
[hdfB21, pValuedfB21, tStatdfB21, cValuedfB21] = dfTSTest(returns2, [0:4], [0.05], 't'); % Teste de Dickey Fuller – raiz unitaria
```

```
[CorrA21 pValuecorrA21 StatcorrA21 CriticalValuecorrA21] =...
```

```
lbqtest(returns1-mean(returns1),[20]',0.05); %presença de autocorrelação serial h=0 não há correlação significativa
```

```
[CorrA21 pValuecorrA21 StatcorrA21 CriticalValuecorrA21];
```

```
[HA21, pValueA21, StatA21, CriticalValueA21] = ...
```

```
archtest(returns1-mean(returns1),[20]',0.05); %presença de efeito arch h=0 não existe efeito arch
```

```
[HA21, pValueA21, StatA21, CriticalValueA21];
```

```
m21 = garchset('Distribution', 'T', 'P', 1, 'Q', 2, ...
```

```
'VarianceModel', 'GARCH', 'Display','off');
```

```
[m21, errors21, LLF21, residuals21, sigmas21] = garchfit(m21, returns1);
```

```
garchdisp(m21, errors21) % Display the estimation results [P21,
```

```
DW21] = dwtest(residuals21,returns1); % durbin Watson mAA21 =
```

```
garchcount(m21); % conta parâmetros
```

```
[AIC21, BIC21] = aicbic(LLF21, mAA21,T); % Critérios de akaike e bayes
```

```
[CorrB21 pValuecorrB21 StatcorrB21 CriticalValuecorrB21] =...
```

```
lbqtest((residuals21./ sigmas21),[20]',0.05); % Presença de correlação serial nos resíduos do modelo estimado
```

```
[CorrB21 pValuecorrB21 StatcorrB21 CriticalValuecorrB21];
```

```
[HB21, pValueB21, StatB21, CriticalValueB21] = ...
```

```
archtest((residuals21./ sigmas21),[20]',0.05); %presença de efeito arch nos resíduos
```

```
[HB21, pValueB21, StatB21, CriticalValueB21];
```

```
standardizedResiduals21 = residuals21 ./ sigmas21; % padronização de resíduos
```

```
rand('state', 0) % iniciar números aleatórios para reprodução em massa – critério modificado do algoritmo de Marsaglia
```

```
nTrials = T2; % número de tentativas independentes e aleatórias
```

```
horizon = 10; % horizonte de previsão da variância
```

```

bootstrappedResiduals21 = standardizedResiduals21 (unidrnd(T2, horizon, nTrials));

preResidual21 = residuals21 ((T2-4):end); % pré amostra modelo de resíduos
preSigma21 = sigmas21 ((T2-4):end); % pré amostra de volatilidades
preReturn21 = returns1((T2-4):end); % retornos pré-definidos [dummy21,
dummy21, ...
previsao10dias21] = garchsim(m21, horizon, nTrials, ...

bootstrappedResiduals21 , [], returns2, ...

preResidual21, preSigma21, preReturn21); % matriz de previsão condicionada a primeira série
previsao21 = previsao10dias21'; % previsão 10 passos a frente
prevA21 = previsao21 (:,1); % séries individuais de previsão
prevB21 = previsao21 (:,2);
prevC21 = previsao21 (:,3);
prevD21 = previsao21 (:,4);
prevE21 = previsao21 (:,5);
prevF21 = previsao21 (:,6);
prevG21 = previsao21 (:,7);
prevH21 = previsao21 (:,8);
prevI21 = previsao21 (:,9);
prevJ21 = previsao21 (:,10);
mseA21 = mse (returns2-prevA21); % Cálculo do erro mínimo quadrado
mseB21 = mse (returns2-prevB21);
mseC21 = mse (returns2-prevC21);
mseD21 = mse (returns2-prevD21);
mseE21 = mse (returns2-prevE21);
mseF21 = mse (returns2-prevF21);
mseG21 = mse (returns2-prevG21);
mseH21 = mse (returns2-prevH21);
mseI21 = mse (returns2-prevI21); mseJ21
= mse (returns2-prevJ21);
maeA21 = mae (returns2-prevA21); % Cálculo do erro absoluto médio
maeB21 = mae (returns2-prevB21);
maeC21 = mae (returns2-prevC21);
maeD21 = mae (returns2-prevD21);
maeE21 = mae (returns2-prevE21);
maeF21 = mae (returns2-prevF21);
maeG21 = mae (returns2-prevG21);
maeH21 = mae (returns2-prevH21);
maeI21 = mae (returns2-prevI21);
maeJ21 = mae (returns2-prevJ21);

% garch 22

[Hpp22, PValuepp22, TStatpp22, CValuepp22] = ppTSTest(teste, [0:4], 0.05); % Teste de Philips e
Perron – raiz unitaria

[hdf22, pValuedf22, tStatdf22, cValuedf22] = dfTSTest(teste, [0:4], [0.05], 't'); % Teste de

```

Dickey Fuller – raiz unitaria

```
[HppA22, PValueppA22, TStatppA22, CValueppA22] = ppTSTest(returns1, [0:4], 0.05); % Teste de Philips e Perron – raiz unitaria
```

```
[hdfA22, pValuedfA22, tStatdfA22, cValuedfA22] = dfTSTest(returns1, [0:4], [0.05], 't'); % Teste de Dickey Fuller – raiz unitaria
```

```
[HppB22, PValueppB22, TStatppB22, CValueppB22] = ppTSTest(returns2, [0:4], 0.05); % Teste de Philips e Perron – raiz unitaria
```

```
[hdfB22, pValuedfB22, tStatdfB22, cValuedfB22] = dfTSTest(returns2, [0:4], [0.05], 't'); % Teste de Dickey Fuller – raiz unitaria
```

```
[CorrA22 pValuecorrA22 StatcorrA22 CriticalValuecorrA22] = ...
```

```
lbqtest(returns1-mean(returns1),[20]',0.05); %presença de autocorrelação serial h=0 não há correlação significativa
```

```
[CorrA22 pValuecorrA22 StatcorrA22 CriticalValuecorrA22];
```

```
[HA22, pValueA22, StatA22, CriticalValueA22] = ...
```

```
archtest(returns1-mean(returns1),[20]',0.05); %presença de efeito arch h=0 não existe efeito arch
```

```
[HA22, pValueA22, StatA22, CriticalValueA22];
```

```
m22 = garchset('Distribution', 'T', 'P', 2, 'Q', 2, ...
```

```
'VarianceModel', 'GARCH', 'Display','off');
```

```
[m22, errors22, LLF22, residuals22, sigmas22] = garchfit(m22, returns1);
```

```
garchdisp(m22, errors22) % Display the estimation results [P22,
```

```
DW22] = dwtest(residuals22,returns1); % durbin Watson mAA22 =
```

```
garchcount(m22); % conta parâmetros
```

```
[AIC22, BIC22] = aicbic(LLF22, mAA22,T); % Critérios de akaike e bayes
```

```
[CorrB22 pValuecorrB22 StatcorrB22 CriticalValuecorrB22] = ...
```

```
lbqtest((residuals22./ sigmas22),[20]',0.05); % Presença de correlação serial nos resíduos do modelo estimado
```

```
[CorrB22 pValuecorrB22 StatcorrB22 CriticalValuecorrB22];
```

```
[HB22, pValueB22, StatB22, CriticalValueB22] = ...
```

```
archtest((residuals22./ sigmas22),[20]',0.05); %presença de efeito arch nos resíduos
```

```
[HB22, pValueB22, StatB22, CriticalValueB22];
```

```
standardizedResiduals22 = residuals22 ./ sigmas22; % padronização de resíduos
```

```
rand('state', 0) % iniciar números aleatórios para reprodução em massa – critério modificado do algoritmo de Marsaglia
```

```
nTrials = T2; % número de tentativas independentes e aleatórias
```

```
horizon = 10; % horizonte de previsão da variância
```

```
bootstrappedResiduals22 = standardizedResiduals22 (unidrnd(T2, horizon, nTrials));
```

```
preResidual22 = residuals22 ((T2-4):end); % pré amostra modelo de resíduos
```

```
preSigma22 = sigmas22 ((T2-4):end); % pré amostra de volatilidades preReturn22 =
returns1((T2-4):end); % retornos pré-definidos
[dummy22, dummy22, ...
```

```
previsao10dias22] = garchsim(m22, horizon, nTrials, ...
bootstrappedResiduals22, [], returns2, ...
preResidual22, preSigma22, preReturn22); % matriz de previsão condicionada a primeira série
previsao22 = previsao10dias22'; % previsão 10 passos a frente
prevA22 = previsao22 (:,1); % séries individuais de previsão
```

```
prevB22 = previsao22 (:,2);
prevC22 = previsao22 (:,3);
prevD22 = previsao22 (:,4);
prevE22 = previsao22 (:,5);
prevF22 = previsao22 (:,6);
prevG22 = previsao22 (:,7);
prevH22 = previsao22 (:,8);
prevI22 = previsao22 (:,9);
prevJ22 = previsao22 (:,10);
```

```
mseA22 = mse (returns2-prevA22); % Cálculo do erro mínimo quadrado
mseB22 = mse (returns2-prevB22);
mseC22 = mse (returns2-prevC22);
mseD22 = mse (returns2-prevD22);
mseE22 = mse (returns2-prevE22);
mseF22 = mse (returns2-prevF22);
mseG22 = mse (returns2-prevG22);
mseH22 = mse (returns2-prevH22);
mseI22 = mse (returns2-prevI22); mseJ22
= mse (returns2-prevJ22);
maeA22 = mae (returns2-prevA22); % Cálculo do erro absoluto médio
maeB22 = mae (returns2-prevB22);
maeC22 = mae (returns2-prevC22);
maeD22 = mae (returns2-prevD22);
maeE22 = mae (returns2-prevE22);
maeF22 = mae (returns2-prevF22);
maeG22 = mae (returns2-prevG22);
maeH22 = mae (returns2-prevH22);
maeI22 = mae (returns2-prevI22);
maeJ22 = mae (returns2-prevJ22);
% garch 23
```

```
[Hpp23, PValuepp23, TStatpp23, CValuepp23] = ppTSTest(teste, [0:4], 0.05); % Teste de Philips e
Perron – raiz unitaria
```

```
[hdf23, pValuedf23, tStatdf23, cValuedf23] = dfTSTest(teste, [0:4], [0.05], 't'); % Teste de
Dickey Fuller – raiz unitaria
```

```
[HppA23, PValueppA23, TStatppA23, CValueppA23] = ppTSTest(returns1, [0:4], 0.05); % Teste de
Philips e Perron – raiz unitaria
```

```
[hdfA23, pValuedfA23, tStatdfA23, cValuedfA23] = dfTSTest(returns1, [0:4], [0.05], 't'); % Teste de
Dickey Fuller – raiz unitaria
```

```

[HppB23, PValueppB23, TStatppB23, CValueppB23] = ppTSTest(returns2, [0:4], 0.05); % Teste de
Philips e Perron – raiz unitaria

[hdfB23, pValuedfB23, tStatdfB23, cValuedfB23] = dfTSTest(returns2, [0:4], [0.05], 't'); % Teste de
Dickey Fuller – raiz unitaria

[CorrA23 pValuecorrA23 StatcorrA23 CriticalValuecorrA23] =...

lbqtest(returns1-mean(returns1),[20]',0.05); %presença de autocorrelação serial h=0 não há
correlação significativa

[CorrA23 pValuecorrA23 StatcorrA23 CriticalValuecorrA23];
[HA23, pValueA23, StatA23, CriticalValueA23] = ...
archtest(returns1-mean(returns1),[20]',0.05); %presença de efeito arch h=0 não existe efeito
arch

[HA23, pValueA23, StatA23, CriticalValueA23];

m23 = garchset('Distribution', 'T', 'P', 3, 'Q', 2, ...
'VarianceModel', 'GARCH', 'Display','off');

[m23, errors23, LLF23, residuals23, sigmas23] = garchfit(m23, returns1);

garchdisp(m23, errors23) % Display the estimation results [P23,
DW23] = dwtest(residuals23,returns1); % durbin Watson mAA23 =
garchcount(m23); % conta parâmetros
[AIC23, BIC23] = aicbic(LLF23, mAA23,T); % Critérios de akaike e bayes

[CorrB23 pValuecorrB23 StatcorrB23 CriticalValuecorrB23] =...

lbqtest((residuals23./ sigmas23),[20]',0.05); % Presença de correlação serial nos resíduos do
modelo estimado

[CorrB23 pValuecorrB23 StatcorrB23 CriticalValuecorrB23];
[HB23, pValueB23, StatB23, CriticalValueB23] = ...
archtest((residuals23./ sigmas23),[20]',0.05); %presença de efeito arch nos resíduos

[HB23, pValueB23, StatB23, CriticalValueB23];
standardizedResiduals23 = residuals23 ./ sigmas23; % padronização de resíduos
rand('state', 0) % iniciar números aleatórios para reprodução em massa – critério
modificado do algoritmo de Marsaglia
nTrials = T2; % número de tentativas independentes e aleatórias
horizon = 10; % horizonte de previsão da variância
bootstrappedResiduals23 = standardizedResiduals23 (unidrnd(T2, horizon, nTrials));

preResidual23 = residuals23 ((T2-4):end); % pré amostra modelo de resíduos
preSigma23 = sigmas23 ((T2-4):end); % pré amostra de volatilidades
preReturn23 = returns1((T2-4):end); % retornos pré-definidos
[dummy23, dummy23, ...

previsao10dias23] = garchsim(m23, horizon, nTrials, ...

```

```

bootstrappedResiduals23 , [], returns2, ...
preResidual23, preSigma23, preReturn23); % matriz de previsão condicionada a primeira série
previsao23 = previsao10dias23'; % previsão 10 passos a frente
prevA23 = previsao23 (:,1); % séries individuais de previsão

prevB23 = previsao23 (:,2);
prevC23 = previsao23 (:,3);
prevD23 = previsao23 (:,4);
prevE23 = previsao23 (:,5);
prevF23 = previsao23 (:,6);
prevG23 = previsao23 (:,7);
prevH23 = previsao23 (:,8);
prevI23 = previsao23 (:,9);
prevJ23 = previsao23 (:,10);
mseA23 = mse (returns2-prevA23); % Cálculo do erro mínimo quadrado
mseB23 = mse (returns2-prevB23);
mseC23 = mse (returns2-prevC23);
mseD23 = mse (returns2-prevD23);
mseE23= mse (returns2-prevE23);
mseF23 = mse (returns2-prevF23);
mseG23 = mse (returns2-prevG23);
mseH23 = mse (returns2-prevH23);
mseI23 = mse (returns2-prevI23);
mseJ23 = mse (returns2-prevJ23);
maeA23 = mae (returns2-prevA23); % Cálculo do erro absoluto médio
maeB23 = mae (returns2-prevB23);
maeC23 = mae (returns2-prevC23);
maeD23 = mae (returns2-prevD23);
maeE23 = mae (returns2-prevE23);
maeF23 = mae (returns2-prevF23);
maeG23 = mae (returns2-prevG23);
maeH23 = mae (returns2-prevH23);
maeI23 = mae (returns2-prevI23);
maeJ23 = mae (returns2-prevJ23);
% garch 24

[Hpp24, PValuepp24, TStatpp24, CValuepp24] = ppTSTest(teste, [0:4], 0.05); % Teste de Philips e
Perron – raiz unitaria

[hdf24, pValuedf24, tStatdf24, cValuedf24] = dfTSTest(teste, [0:4], [0.05], 't'); % Teste de
Dickey Fuller – raiz unitaria

[HppA24, PValueppA24, TStatppA24, CValueppA24] = ppTSTest(returns1, [0:4], 0.05); % Teste de
Philips e Perron – raiz unitaria

[hdfA24, pValuedfA24, tStatdfA24, cValuedfA24] = dfTSTest(returns1, [0:4], [0.05], 't'); % Teste de
Dickey Fuller – raiz unitaria

[HppB24, PValueppB24, TStatppB24, CValueppB24] = ppTSTest(returns2, [0:4], 0.05); % Teste de
Philips e Perron – raiz unitaria

[hdfB24, pValuedfB24, tStatdfB24, cValuedfB24] = dfTSTest(returns2, [0:4], [0.05], 't'); % Teste de

```

Dickey Fuller – raiz unitaria

```
[CorrA24 pValuecorrA24 StatcorrA24 CriticalValuecorrA24] =...
```

```
lbqtest(returns1-mean(returns1),[20]',0.05); %presença de autocorrelação serial h=0 não há correlação significativa
```

```
[CorrA24 pValuecorrA24 StatcorrA24 CriticalValuecorrA24];
```

```
[HA24, pValueA24, StatA24, CriticalValueA24] = ...
```

```
archtest(returns1-mean(returns1),[20]',0.05); %presença de efeito arch h=0 não existe efeito arch
```

```
[HA24, pValueA24, StatA24, CriticalValueA24];
```

```
m24 = garchset('Distribution', 'T', 'P', 4, 'Q', 2, ...
```

```
'VarianceModel', 'GARCH', 'Display','off');
```

```
[m24, errors24, LLF24, residuals24, sigmas24] = garchfit(m24, returns1);
```

```
garchdisp(m24, errors24) % Display the estimation results
```

```
[P24, DW24] = dwtest(residuals24,returns1); % durbin Watson
```

```
mAA24 = garchcount(m24); % conta parâmetros
```

```
[AIC24, BIC24] = aicbic(LLF24, mAA24,T); % Critérios de akaike e bayes
```

```
[CorrB24 pValuecorrB24 StatcorrB24 CriticalValuecorrB24] =...
```

```
lbqtest((residuals24./ sigmas24),[20]',0.05); % Presença de correlação serial nos resíduos do modelo estimado
```

```
[CorrB24 pValuecorrB24 StatcorrB24 CriticalValuecorrB24];
```

```
[HB24, pValueB24, StatB24, CriticalValueB24] = ...
```

```
archtest((residuals24./ sigmas24),[20]',0.05); %presença de efeito arch nos resíduos
```

```
[HB24, pValueB24, StatB24, CriticalValueB24];
```

```
standardizedResiduals24 = residuals24 ./ sigmas24; % padronização de resíduos
```

```
rand('state', 0) % iniciar números aleatórios para reprodução em massa – critério modificado do algoritmo de Marsaglia
```

```
nTrials = T2; % número de tentativas independentes e aleatórias
```

```
horizon = 10; % horizonte de previsão da variância
```

```
bootstrappedResiduals24 = standardizedResiduals24 (unidrnd(T2, horizon, nTrials));
```

```
preResidual24 = residuals24 ((T2-4):end); % pré amostra modelo de resíduos
```

```
preSigma24 = sigmas24 ((T2-4):end); % pré amostra de volatilidades preReturn24 =
```

```
returns1((T2-4):end); % retornos pré-definidos
```

```
[dummy24, dummy24, ...
```

```
previsao10dias24] = garchsim(m24, horizon, nTrials, ...
```

```
bootstrappedResiduals24 , [], returns2, ...
```

```
preResidual24, preSigma24, preReturn24); % matriz de previsão condicionada a primeira série
```

```
previsao24 = previsao10dias24'; % previsão 10 passos a frente
```



```

prevA24 = previsao24 (:,1); % séries individuais de previsão
prevB24 = previsao24 (:,2);
prevC24 = previsao24 (:,3);
prevD24 = previsao24 (:,4);
prevE24 = previsao24 (:,5);
prevF24 = previsao24 (:,6);
prevG24 = previsao24 (:,7);
prevH24 = previsao24 (:,8);
prevI24 = previsao24 (:,9);
prevJ24 = previsao24 (:,10);
mseA24 = mse (returns2-prevA24); % Cálculo do erro mínimo quadrado
mseB24 = mse (returns2-prevB24);
mseC24 = mse (returns2-prevC24);
mseD24 = mse (returns2-prevD24);
mseE24 = mse (returns2-prevE24);
mseF24 = mse (returns2-prevF24);
mseG24 = mse (returns2-prevG24);
mseH24 = mse (returns2-prevH24);
mseI24 = mse (returns2-prevI24); mseJ24
= mse (returns2-prevJ24);
maeA24 = mae (returns2-prevA24); % Cálculo do erro absoluto médio
maeB24 = mae (returns2-prevB24);
maeC24 = mae (returns2-prevC24);
maeD24 = mae (returns2-prevD24);
maeE24 = mae (returns2-prevE24);
maeF24 = mae (returns2-prevF24);
maeG24 = mae (returns2-prevG24);
maeH24 = mae (returns2-prevH24);
maeI24 = mae (returns2-prevI24); maeJ24
= mae (returns2-prevJ24);

% garch 31

[Hpp31, PValuepp31, TStatpp31, CValuepp31] = ppTSTest(teste, [0:4], 0.05); % Teste de Philips e
Perron – raiz unitaria

[hdf31, pValuedf31, tStatdf31, cValuedf31] = dftSTest(teste, [0:4], [0.05], 't'); % Teste de
Dickey Fuller – raiz unitaria

[HppA31, PValueppA31, TStatppA31, CValueppA31] = ppTSTest(returns1, [0:4], 0.05); % Teste de
Philips e Perron – raiz unitaria

[hdfA31, pValuedfA31, tStatdfA31, cValuedfA31] = dftSTest(returns1, [0:4], [0.05], 't'); % Teste de
Dickey Fuller – raiz unitaria

[HppB31, PValueppB31, TStatppB31, CValueppB31] = ppTSTest(returns2, [0:4], 0.05); % Teste de
Philips e Perron – raiz unitaria

[hdfB31, pValuedfB31, tStatdfB31, cValuedfB31] = dftSTest(returns2, [0:4], [0.05], 't'); % Teste de
Dickey Fuller – raiz unitaria

[CorrA31 pValuecorrA31 StatcorrA31 CriticalValuecorrA31] = ...

```

```
lbqctest(returns1-mean(returns1),[20]',0.05); %presença de autocorrelação serial h=0 não há correlação significativa
```

```
[CorrA31 pValuecorrA31 StatcorrA31 CriticalValuecorrA31];
```

```
[HA31, pValueA31, StatA31, CriticalValueA31] = ...
```

```
archtest(returns1-mean(returns1),[20]',0.05); %presença de efeito arch h=0 não existe efeito arch
```

```
[HA31, pValueA31, StatA31, CriticalValueA31];
```

```
m31 = garchset('Distribution', 'T', 'P', 1, 'Q', 3, ...
```

```
'VarianceModel', 'GARCH', 'Display','off');
```

```
[m31, errors31, LLF31, residuals31, sigmas31] = garchfit(m31, returns1);
```

```
garchdisp(m31, errors31) % Display the estimation results [P31,  
DW31] = dwtest(residuals31,returns1); % durbin Watson mAA31 =  
garchcount(m31); % conta parâmetros
```

```
[AIC31, BIC31] = aicbic(LLF31, mAA31,T); % Critérios de akaike e bayes
```

```
[CorrB31 pValuecorrB31 StatcorrB31 CriticalValuecorrB31] =...
```

```
lbqctest((residuals31./ sigmas31),[20]',0.05); % Presença de correlação serial nos resíduos do modelo estimado
```

```
[CorrB31 pValuecorrB31 StatcorrB31 CriticalValuecorrB31];
```

```
[HB31, pValueB31, StatB31, CriticalValueB31] = ...
```

```
archtest((residuals31./ sigmas31),[20]',0.05); %presença de efeito arch nos resíduos
```

```
[HB31, pValueB31, StatB31, CriticalValueB31];
```

```
standardizedResiduals31 = residuals31 ./ sigmas31; % padronização de resíduos  
rand('state', 0) % iniciar números aleatórios para reprodução em massa – critério modificado do algoritmo de Marsaglia
```

```
nTrials = T2; % número de tentativas independentes e aleatórias
```

```
horizon = 10; % horizonte de previsão da variância
```

```
bootstrappedResiduals31 = standardizedResiduals31 (unidrnd(T2, horizon, nTrials));
```

```
preResidual31 = residuals31 ((T2-4):end); % pré amostra modelo de resíduos
```

```
preSigma31 = sigmas31 ((T2-4):end); % pré amostra de volatilidades preReturn31 =
```

```
returns1((T2-4):end); % retornos pré-definidos
```

```
[dummy31, dummy31, ...
```

```
previsao10dias31] = garchsim(m31, horizon, nTrials, ...
```

```
bootstrappedResiduals31, [], returns2, ...
```

```
preResidual31, preSigma31, preReturn31); % matriz de previsão condicionada a primeira série
```

```
previsao31 = previsao10dias31'; % previsão 10 passos a frente
```

```
prevA31 = previsao31 (:,1); % séries individuais de previsão
```

```
prevB31 = previsao31 (:,2);
```

```

prevC31 = previsao31 (:,3);
prevD31 = previsao31 (:,4);
prevE31 = previsao31 (:,5);
prevF31 = previsao31 (:,6);
prevG31 = previsao31 (:,7);
prevH31 = previsao31 (:,8);
prevI31 = previsao31 (:,9);
prevJ31 = previsao31 (:,10);
mseA31 = mse (returns2-prevA31); % Cálculo do erro mínimo quadrado
mseB31 = mse (returns2-prevB31);
mseC31 = mse (returns2-prevC31);
mseD31 = mse (returns2-prevD31);
mseE31 = mse (returns2-prevE31);
mseF31 = mse (returns2-prevF31);
mseG31 = mse (returns2-prevG31);
mseH31 = mse (returns2-prevH31);
mseI31 = mse (returns2-prevI31); mseJ31
= mse (returns2-prevJ31);
maeA31 = mae (returns2-prevA31); % Cálculo do erro absoluto médio
maeB31 = mae (returns2-prevB31);
maeC31 = mae (returns2-prevC31);
maeD31 = mae (returns2-prevD31);
maeE31 = mae (returns2-prevE31);
maeF31 = mae (returns2-prevF31);
maeG31 = mae (returns2-prevG31);
maeH31 = mae (returns2-prevH31);
maeI31 = mae (returns2-prevI31);
maeJ31 = mae (returns2-prevJ31);

% garch 32

[Hpp32, PValuepp32, TStatpp32, CValuepp32] = ppTSTest(teste, [0:4], 0.05); % Teste de Philips e
Perron – raiz unitaria

[hdf32, pValuedf32, tStatdf32, cValuedf32] = dfTSTest(teste, [0:4], [0.05], 't'); % Teste de
Dickey Fuller – raiz unitaria
[HppA32, PValueppA32, TStatppA32, CValueppA32] = ppTSTest(returns1, [0:4], 0.05); % Teste de
Philips e Perron – raiz unitaria

[hdfA32, pValuedfA32, tStatdfA32, cValuedfA32] = dfTSTest(returns1, [0:4], [0.05], 't'); % Teste de
Dickey Fuller – raiz unitaria

[HppB32, PValueppB32, TStatppB32, CValueppB32] = ppTSTest(returns2, [0:4], 0.05); % Teste de
Philips e Perron – raiz unitaria

[hdfB32, pValuedfB32, tStatdfB32, cValuedfB32] = dfTSTest(returns2, [0:4], [0.05], 't'); % Teste de
Dickey Fuller – raiz unitaria

[CorrA32 pValuecorrA32 StatcorrA32 CriticalValuecorrA32] =...

lbqctest(returns1-mean(returns1),[20]',0.05); %presença de autocorrelação serial h=0 não há

```

correlação significativa

```
[CorrA32 pValuecorrA32 StatcorrA32 CriticalValuecorrA32];
```

```
[HA32, pValueA32, StatA32, CriticalValueA32] = ...
```

```
archtest(returns1-mean(returns1),[20]',0.05); %presença de efeito arch h=0 não existe efeito arch
```

```
[HA32, pValueA32, StatA32, CriticalValueA32];
```

```
m32 = garchset('Distribution', 'T' , 'P', 2, 'Q', 3, ...
```

```
'VarianceModel', 'GARCH', 'Display','off');
```

```
[m32, errors32, LLF32, residuals32, sigmas32] = garchfit(m32, returns1);
```

```
garchdisp(m32, errors32) % Display the estimation results
```

```
[P32, DW32] = dwtest(residuals32,returns1); % durbin Watson
```

```
mAA32 = garchcount(m32); % conta parâmetros
```

```
[AIC32, BIC32] = aicbic(LLF32, mAA32,T); % Critérios de akaike e bayes
```

```
[CorrB32 pValuecorrB32 StatcorrB32 CriticalValuecorrB32] =...
```

```
lbqtest((residuals32./ sigmas32),[20]',0.05); % Presença de correlação serial nos resíduos do modelo estimado
```

```
[CorrB32 pValuecorrB32 StatcorrB32 CriticalValuecorrB32];
```

```
[HB32, pValueB32, StatB32, CriticalValueB32] = ...
```

```
archtest((residuals32./ sigmas32),[20]',0.05); %presença de efeito arch nos resíduos
```

```
[HB32, pValueB32, StatB32, CriticalValueB32];
```

```
standardizedResiduals32 = residuals32 ./ sigmas32; % padronização de resíduos
```

```
rand('state', 0) % iniciar números aleatórios para reprodução em massa – critério modificado do algoritmo de Marsaglia
```

```
nTrials = T2; % número de tentativas independentes e aleatórias
```

```
horizon = 10; % horizonte de previsão da variância
```

```
bootstrappedResiduals32 = standardizedResiduals32 (unidrnd(T2, horizon, nTrials));
```

```
preResidual32 = residuals32 ((T2-4):end); % pré amostra modelo de resíduos
```

```
preSigma32 = sigmas32 ((T2-4):end); % pré amostra de volatilidades preReturn32 =
```

```
returns1((T2-4):end); % retornos pré-definidos
```

```
[dummy32, dummy32, ...
```

```
previsao10dias32] = garchsim(m32, horizon, nTrials, ...
```

```
bootstrappedResiduals32 , [], returns2, ...
```

```
preResidual32, preSigma32, preReturn32); % matriz de previsão condicionada a primeira série
```

```
previsao32 = previsao10dias32'; % previsão 10 passos a frente
```

```
prevA32 = previsao32 (:,1); % séries individuais de previsão
```

```
prevB32 = previsao32 (:,2);
```

```

prevC32 = previsao32 (:,3);
prevD32 = previsao32 (:,4);
prevE32 = previsao32 (:,5);
prevF32 = previsao32 (:,6);
prevG32 = previsao32 (:,7);
prevH32 = previsao32 (:,8);
prevI32 = previsao32 (:,9);
prevJ32 = previsao32 (:,10);
mseA32 = mse (returns2-prevA32); % Cálculo do erro mínimo quadrado
mseB32 = mse (returns2-prevB32);
mseC32 = mse (returns2-prevC32);
mseD32 = mse (returns2-prevD32);
mseE32= mse (returns2-prevE32);
mseF32 = mse (returns2-prevF32);
mseG32 = mse (returns2-prevG32);
mseH32 = mse (returns2-prevH32);
mseI32 = mse (returns2-prevI32); mseJ32
= mse (returns2-prevJ32);
maeA32 = mae (returns2-prevA32); % Cálculo do erro absoluto médio
maeB32 = mae (returns2-prevB32);
maeC32 = mae (returns2-prevC32);
maeD32 = mae (returns2-prevD32);
maeE32 = mae (returns2-prevE32);
maeF32 = mae (returns2-prevF32);
maeG32 = mae (returns2-prevG32);
maeH32 = mae (returns2-prevH32);
maeI32 = mae (returns2-prevI32);
maeJ32 = mae (returns2-prevJ32);

```

```
% garch 33
```

```
[Hpp33, PValuepp33, TStatpp33, CValuepp33] = ppTSTest(teste, [0:4], 0.05); % Teste de Philips e Perron – raiz unitaria
```

```
[hdf33, pValuedf33, tStatdf33, cValuedf33] = dfTSTest(teste, [0:4], [0.05], 't'); % Teste de Dickey Fuller – raiz unitaria
```

```
[HppA33, PValueppA33, TStatppA33, CValueppA33] = ppTSTest(returns1, [0:4], 0.05); % Teste de Philips e Perron – raiz unitaria
```

```
[hdfA33, pValuedfA33, tStatdfA33, cValuedfA33] = dfTSTest(returns1, [0:4], [0.05], 't'); % Teste de Dickey Fuller – raiz unitaria
```

```
[HppB33, PValueppB33, TStatppB33, CValueppB33] = ppTSTest(returns2, [0:4], 0.05); % Teste de Philips e Perron – raiz unitaria
```

```
[hdfB33, pValuedfB33, tStatdfB33, cValuedfB33] = dfTSTest(returns2, [0:4], [0.05], 't'); % Teste de Dickey Fuller – raiz unitaria
```

```
[CorrA33 pValuecorrA33 StatcorrA33 CriticalValuecorrA33] = ...
```

```
lbqtest(returns1-mean(returns1),[20]',0.05); %presença de autocorrelação serial h=0 não há correlação significativa
```

```
[CorrA33 pValuecorrA33 StatcorrA33 CriticalValuecorrA33];
```

```
[HA33, pValueA33, StatA33, CriticalValueA33] = ...
```

```
archtest(returns1-mean(returns1),[20]',0.05); %presença de efeito arch h=0 não existe efeito arch
```

```
[HA33, pValueA33, StatA33, CriticalValueA33];
```

```
m33 = garchset('Distribution' , 'T' , 'P', 3, 'Q', 3, ...
```

```
'VarianceModel', 'GARCH', 'Display','off');
```

```
[m33, errors33, LLF33, residuals33, sigmas33] = garchfit(m33, returns1);
```

```
garchdisp(m33, errors33) % Display the estimation results
```

```
[P33, DW33] = dwtest(residuals33,returns1); % durbin Watson
```

```
mAA33 = garchcount(m33); % conta parâmetros
```

```
[AIC33, BIC33] = aicbic(LLF33, mAA33,T); % Critérios de akaike e bayes
```

```
[CorrB33 pValuecorrB33 StatcorrB33 CriticalValuecorrB33] =...
```

```
lbqtest((residuals33./ sigmas33),[20]',0.05); % Presença de correlação serial nos resíduos do modelo estimado
```

```
[CorrB33 pValuecorrB33 StatcorrB33 CriticalValuecorrB33];
```

```
[HB33, pValueB33, StatB33, CriticalValueB33] = ...
```

```
archtest((residuals33./ sigmas33),[20]',0.05); %presença de efeito arch nos resíduos
```

```
[HB33, pValueB33, StatB33, CriticalValueB33];
```

```
standardizedResiduals33 = residuals33 ./ sigmas33; % padronização de resíduos
```

```
rand('state', 0) % iniciar números aleatórios para reprodução em massa – critério modificado do algoritmo de Marsaglia
```

```
nTrials = T2; % número de tentativas independentes e aleatórias
```

```
horizon = 10; % horizonte de previsão da variância
```

```
bootstrappedResiduals33 = standardizedResiduals33 (unidrnd(T2, horizon, nTrials));
```

```
preResidual33 = residuals33 ((T2-4):end); % pré amostra modelo de resíduos
```

```
preSigma33 = sigmas33 ((T2-4):end); % pré amostra de volatilidades
```

```
preReturn33 = returns1((T2-4):end); % retornos pré-definidos [dummy33, dummy33, ...
```

```
previsao10dias33] = garchsim(m33, horizon, nTrials, ...
```

```
bootstrappedResiduals33 , [], returns2, ...
```

```
preResidual33, preSigma33, preReturn33); % matriz de previsão condicionada a primeira série
```

```
previsao33 = previsao10dias33'; % previsão 10 passos a frente
```

```
prevA33 = previsao33 (:,1); % séries individuais de previsão
```

```

prevB33 = previsao33 (:,2);
prevC33 = previsao33 (:,3);
prevD33 = previsao33 (:,4);
prevE33 = previsao33 (:,5);
prevF33 = previsao33 (:,6);
prevG33 = previsao33 (:,7);
prevH33 = previsao33 (:,8);
prevI33 = previsao33 (:,9);
prevJ33 = previsao33 (:,10);
mseA33 = mse (returns2-prevA33); % Cálculo do erro mínimo quadrado
mseB33 = mse (returns2-prevB33);
mseC33 = mse (returns2-prevC33);
mseD33 = mse (returns2-prevD33);
mseE33= mse (returns2-prevE33);
mseF33 = mse (returns2-prevF33);
mseG33 = mse (returns2-prevG33);
mseH33 = mse (returns2-prevH33);
mseI33 = mse (returns2-prevI33); mseJ33
= mse (returns2-prevJ33);
maeA33 = mae (returns2-prevA33); % Cálculo do erro absoluto médio
maeB33 = mae (returns2-prevB33);
maeC33 = mae (returns2-prevC33);
maeD33 = mae (returns2-prevD33);
maeE33 = mae (returns2-prevE33);
maeF33 = mae (returns2-prevF33);
maeG33 = mae (returns2-prevG33);
maeH33 = mae (returns2-prevH33);
maeI33 = mae (returns2-prevI33);
maeJ33 = mae (returns2-prevJ33);

```

```
% garch 34
```

```
[Hpp34, PValuepp34, TStatpp34, CValuepp34] = ppTSTest(teste, [0:4], 0.05); % Teste de Philips e Perron – raiz unitaria
```

```
[hdf34, pValuedf34, tStatdf34, cValuedf34] = dfTSTest(teste, [0:4], [0.05], 't'); % Teste de Dickey Fuller – raiz unitaria
```

```
[HppA34, PValueppA34, TStatppA34, CValueppA34] = ppTSTest(returns1, [0:4], 0.05); % Teste de Philips e Perron – raiz unitaria
```

```
[hdfA34, pValuedfA34, tStatdfA34, cValuedfA34] = dfTSTest(returns1, [0:4], [0.05], 't'); % Teste de Dickey Fuller – raiz unitaria
```

```
[HppB34, PValueppB34, TStatppB34, CValueppB34] = ppTSTest(returns2, [0:4], 0.05); % Teste de Philips e Perron – raiz unitaria
```

```
[hdfB34, pValuedfB34, tStatdfB34, cValuedfB34] = dfTSTest(returns2, [0:4], [0.05], 't'); % Teste de Dickey Fuller – raiz unitaria
```

```
[CorrA34 pValuecorrA34 StatcorrA34 CriticalValuecorrA34] = ...
```

```
lbqctest(returns1-mean(returns1),[20]',0.05); %presença de autocorrelação serial h=0 não há correlação significativa
```

```
[CorrA34 pValuecorrA34 StatcorrA34 CriticalValuecorrA34];  
[HA34, pValueA34, StatA34, CriticalValueA34] = ...  
archtest(returns1-mean(returns1),[20]',0.05); %presença de efeito arch h=0 não existe efeito arch
```

```
[HA34, pValueA34, StatA34, CriticalValueA34];
```

```
m34 = garchset('Distribution' , 'T' , 'P', 4, 'Q', 3, ...
```

```
'VarianceModel', 'GARCH', 'Display','off');
```

```
[m34, errors34, LLF34, residuals34, sigmas34] = garchfit(m34, returns1);
```

```
garchdisp(m34, errors34) % Display the estimation results
```

```
[P34, DW34] = dwtest(residuals34,returns1); % durbin Watson
```

```
mAA34 = garchcount(m34); % conta parâmetros
```

```
[AIC34, BIC34] = aicbic(LLF34, mAA34,T); % Critérios de akaike e bayes
```

```
[CorrB34 pValuecorrB34 StatcorrB34 CriticalValuecorrB34] =...
```

```
lbqctest((residuals34./ sigmas34),[20]',0.05); % Presença de correlação serial nos resíduos do modelo estimado
```

```
[CorrB34 pValuecorrB34 StatcorrB34 CriticalValuecorrB34];
```

```
[HB34, pValueB34, StatB34, CriticalValueB34] = ...
```

```
archtest((residuals34./ sigmas34),[20]',0.05); %presença de efeito arch nos resíduos
```

```
[HB34, pValueB34, StatB34, CriticalValueB34];
```

```
standardizedResiduals34 = residuals34 ./ sigmas34; % padronização de resíduos
```

```
rand('state', 0) % iniciar números aleatórios para reprodução em massa – critério modificado do algoritmo de Marsaglia
```

```
nTrials = T2; % número de tentativas independentes e aleatórias
```

```
horizon = 10; % horizonte de previsão da variância
```

```
bootstrappedResiduals34 = standardizedResiduals34 (unidrnd(T2, horizon, nTrials));
```

```
preResidual34 = residuals34 ((T2-4):end); % pré amostra modelo de resíduos
```

```
preSigma34 = sigmas34 ((T2-4):end); % pré amostra de volatilidades
```

```
preReturn34 = returns1((T2-4):end); % retornos pré-definidos
```

```
[dummy34, dummy34, ...
```

```
previsao10dias34] = garchsim(m34, horizon, nTrials, ...
```



```

bootstrappedResiduals34 , [], returns2, ...
preResidual34, preSigma34, preReturn34); % matriz de previsão condicionada a primeira série
previsao34 = previsao10dias34'; % previsão 10 passos a frente
prevA34 = previsao34 (:,1); % séries individuais de previsão
prevB34 = previsao34 (:,2);
prevC34 = previsao34 (:,3);
prevD34 = previsao34 (:,4);
prevE34 = previsao34 (:,5);
prevF34 = previsao34 (:,6);
prevG34 = previsao34 (:,7);
prevH34 = previsao34 (:,8);
prevI34 = previsao34 (:,9);
prevJ34 = previsao34 (:,10);
mseA34 = mse (returns2-prevA34); % Cálculo do erro mínimo quadrado
mseB34 = mse (returns2-prevB34);
mseC34 = mse (returns2-prevC34);
mseD34 = mse (returns2-prevD34);
mseE34 = mse (returns2-prevE34);
mseF34 = mse (returns2-prevF34);
mseG34 = mse (returns2-prevG34);
mseH34 = mse (returns2-prevH34);
mseI34 = mse (returns2-prevI34); mseJ34
= mse (returns2-prevJ34);
maeA34 = mae (returns2-prevA34); % Cálculo do erro absoluto médio
maeB34 = mae (returns2-prevB34);
maeC34 = mae (returns2-prevC34);
maeD34 = mae (returns2-prevD34);
maeE34 = mae (returns2-prevE34);
maeF34 = mae (returns2-prevF34);
maeG34 = mae (returns2-prevG34);
maeH34 = mae (returns2-prevH34);
maeI34 = mae (returns2-prevI34);

maeJ34 = mae (returns2-prevJ34);

% garch 41

[Hpp41, PValuepp41, TStatpp41, CValuepp41] = ppTSTest(teste, [0:4], 0.05); % Teste de Philips e
Perron – raiz unitaria

[hdf41, pValuedf41, tStatdf41, cValuedf41] = dfTSTest(teste, [0:4], [0.05], 't'); % Teste de
Dickey Fuller – raiz unitaria

[HppA41, PValueppA41, TStatppA41, CValueppA41] = ppTSTest(returns1, [0:4], 0.05); % Teste de
Philips e Perron – raiz unitaria

[hdfA41, pValuedfA41, tStatdfA41, cValuedfA41] = dfTSTest(returns1, [0:4], [0.05], 't'); % Teste de
Dickey Fuller – raiz unitaria

[HppB41, PValueppB41, TStatppB41, CValueppB41] = ppTSTest(returns2, [0:4], 0.05); % Teste de
Philips e Perron – raiz unitaria

```

```
[hdfB41, pValueB41, tStatB41, cValueB41] = dfTSTest(returns2, [0:4], [0.05], 't'); % Teste de Dickey Fuller – raiz unitaria
```

```
[CorrA41 pValuecorrA41 StatcorrA41 CriticalValuecorrA41] =...
```

```
lbqtest(returns1-mean(returns1),[20]',0.05); %presença de autocorrelação serial h=0 não há correlação significativa
```

```
[CorrA41 pValuecorrA41 StatcorrA41 CriticalValuecorrA41];  
[HA41, pValueA41, StatA41, CriticalValueA41] = ...  
archtest(returns1-mean(returns1),[20]',0.05); %presença de efeito arch h=0 não existe efeito arch
```

```
[HA41, pValueA41, StatA41, CriticalValueA41];
```

```
m41 = garchset('Distribution', 'T', 'P', 1, 'Q', 4, ...
```

```
'VarianceModel', 'GARCH', 'Display','off');
```

```
[m41, errors41, LLF41, residuals41, sigmas41] = garchfit(m41, returns1);
```

```
garchdisp(m41, errors41) % Display the estimation results
```

```
[P41, DW41] = dwtest(residuals41,returns1); % durbin Watson
```

```
mAA41 = garchcount(m41); % conta parâmetros
```

```
[AIC41, BIC41] = aicbic(LLF41, mAA41,T); % Critérios de akaike e bayes
```

```
[CorrB41 pValuecorrB41 StatcorrB41 CriticalValuecorrB41] =...
```

```
lbqtest((residuals41./ sigmas41),[20]',0.05); % Presença de correlação serial nos resíduos do modelo estimado
```

```
[CorrB41 pValuecorrB41 StatcorrB41 CriticalValuecorrB41];  
[HB41, pValueB41, StatB41, CriticalValueB41] = ...  
archtest((residuals41./ sigmas41),[20]',0.05); %presença de efeito arch nos resíduos
```

```
[HB41, pValueB41, StatB41, CriticalValueB41];  
standardizedResiduals41 = residuals41 ./ sigmas41; % padronização de resíduos  
rand('state', 0) % iniciar números aleatórios para reprodução em massa – critério modificado do algoritmo de Marsaglia
```

```
nTrials = T2; % número de tentativas independentes e aleatórias
```

```
horizon = 10; % horizonte de previsão da variância
```

```
bootstrappedResiduals41 = standardizedResiduals41 (unidrnd(T2, horizon, nTrials));
```

```
preResidual41 = residuals41 ((T2-4):end); % pré amostra modelo de resíduos
```

```
preSigma41 = sigmas41 ((T2-4):end); % pré amostra de volatilidades
```

```
preReturn41 = returns1((T2-4):end); % retornos pré-definidos
```

```
[dummy41, dummy41, ...
```

```
previsao10dias41] = garchsim(m41, horizon, nTrials, ...
```

```
bootstrappedResiduals41, [], returns2, ...
```

```

preResidual41, preSigma41, preReturn41); % matriz de previsão condicionada a primeira série
previsao41 = previsao10dias41'; % previsão 10 passos a frente
prevA41 = previsao41 (:,1); % séries individuais de previsão
prevB41 = previsao41 (:,2);
prevC41 = previsao41 (:,3);
prevD41 = previsao41 (:,4);
prevE41 = previsao41 (:,5);
prevF41 = previsao41 (:,6);
prevG41 = previsao41 (:,7);
prevH41 = previsao41 (:,8);
prevI41 = previsao41 (:,9);
prevJ41 = previsao41 (:,10);
mseA41 = mse (returns2-prevA41); % Cálculo do erro mínimo quadrado
mseB41 = mse (returns2-prevB41);
mseC41 = mse (returns2-prevC41);
mseD41 = mse (returns2-prevD41);
mseE41 = mse (returns2-prevE41);
mseF41 = mse (returns2-prevF41);
mseG41 = mse (returns2-prevG41);
mseH41 = mse (returns2-prevH41);
mseI41 = mse (returns2-prevI41); mseJ41
= mse (returns2-prevJ41);
maeA41 = mae (returns2-prevA41); % Cálculo do erro absoluto médio
maeB41 = mae (returns2-prevB41);
maeC41 = mae (returns2-prevC41);
maeD41 = mae (returns2-prevD41);
maeE41 = mae (returns2-prevE41);
maeF41 = mae (returns2-prevF41);
maeG41 = mae (returns2-prevG41);
maeH41 = mae (returns2-prevH41);
maeI41 = mae (returns2-prevI41);
maeJ41 = mae (returns2-prevJ41);

% garch 42

[Hpp42, PValuepp42, TStatpp42, CValuepp42] = ppTSTest(teste, [0:4], 0.05); % Teste de Philips e
Perron – raiz unitaria

[hdf42, pValuedf42, tStatdf42, cValuedf42] = dfTSTest(teste, [0:4], [0.05], 't'); % Teste de
Dickey Fuller – raiz unitaria
[HppA42, PValueppA42, TStatppA42, CValueppA42] = ppTSTest(returns1, [0:4], 0.05); % Teste de
Philips e Perron – raiz unitaria

[hdfA42, pValuedfA42, tStatdfA42, cValuedfA42] = dfTSTest(returns1, [0:4], [0.05], 't'); % Teste de
Dickey Fuller – raiz unitaria

[HppB42, PValueppB42, TStatppB42, CValueppB42] = ppTSTest(returns2, [0:4], 0.05); % Teste de
Philips e Perron – raiz unitaria

[hdfB42, pValuedfB42, tStatdfB42, cValuedfB42] = dfTSTest(returns2, [0:4], [0.05], 't'); % Teste de
Dickey Fuller – raiz unitaria

```

```
[CorrA42 pValuecorrA42 StatcorrA42 CriticalValuecorrA42] =...
```

```
lbqtest(returns1-mean(returns1),[20]',0.05); %presença de autocorrelação serial h=0 não há correlação significativa
```

```
[CorrA42 pValuecorrA42 StatcorrA42 CriticalValuecorrA42];
```

```
[HA42, pValueA42, StatA42, CriticalValueA42] = ...
```

```
archtest(returns1-mean(returns1),[20]',0.05); %presença de efeito arch h=0 não existe efeito arch
```

```
[HA42, pValueA42, StatA42, CriticalValueA42];
```

```
m42 = garchset('Distribution', 'T', 'P', 2, 'Q', 4, ...
```

```
'VarianceModel', 'GARCH', 'Display','off');
```

```
[m42, errors42, LLF42, residuals42, sigmas42] = garchfit(m42, returns1);
```

```
garchdisp(m42, errors42) % Display the estimation results
```

```
[P42, DW42] = dwtest(residuals42,returns1); % durbin Watson
```

```
mAA42 = garchcount(m42); % conta parâmetros
```

```
[AIC42, BIC42] = aicbic(LLF42, mAA42,T); % Critérios de akaike e bayes
```

```
[CorrB42 pValuecorrB42 StatcorrB42 CriticalValuecorrB42] =...
```

```
lbqtest((residuals42./ sigmas42),[20]',0.05); % Presença de correlação serial nos resíduos do modelo estimado
```

```
[CorrB42 pValuecorrB42 StatcorrB42 CriticalValuecorrB42];
```

```
[HB42, pValueB42, StatB42, CriticalValueB42] = ...
```

```
archtest((residuals42./ sigmas42),[20]',0.05); %presença de efeito arch nos resíduos
```

```
[HB42, pValueB42, StatB42, CriticalValueB42];
```

```
standardizedResiduals42 = residuals42 ./ sigmas42; % padronização de resíduos
```

```
rand('state', 0) % iniciar números aleatórios para reprodução em massa – critério modificado do algoritmo de Marsaglia
```

```
nTrials = T2; % número de tentativas independentes e aleatórias
```

```
horizon = 10; % horizonte de previsão da variância
```

```
bootstrappedResiduals42 = standardizedResiduals42 (unidrnd(T2, horizon, nTrials));
```

```
preResidual42 = residuals42 ((T2-4):end); % pré amostra modelo de resíduos
```

```
preSigma42 = sigmas42 ((T2-4):end); % pré amostra de volatilidades preReturn42 =
```

```
returns1((T2-4):end); % retornos pré-definidos
```

```
[dummy42, dummy42, ...
```

```
previsao10dias42] = garchsim(m42, horizon, nTrials, ...
```

```
bootstrappedResiduals42, [], returns2, ...
```

```
preResidual42, preSigma42, preReturn42); % matriz de previsão condicionada a primeira série
```

```
previsao42 = previsao10dias42'; % previsão 10 passos a frente
```

```
prevA42 = previsao42 (:,1); % séries individuais de previsão
```

```
prevB42 = previsao42 (:,2);
```

```

prevC42 = previsao42 (:,3);
prevD42 = previsao42 (:,4);
prevE42 = previsao42 (:,5);
prevF42 = previsao42 (:,6);
prevG42 = previsao42 (:,7);
prevH42 = previsao42 (:,8);
prevI42 = previsao42 (:,9);
prevJ42 = previsao42 (:,10);
mseA42 = mse (returns2-prevA42); % Cálculo do erro mínimo quadrado
mseB42 = mse (returns2-prevB42);
mseC42 = mse (returns2-prevC42);
mseD42 = mse (returns2-prevD42);
mseE42= mse (returns2-prevE42);
mseF42 = mse (returns2-prevF42);
mseG42 = mse (returns2-prevG42);
mseH42 = mse (returns2-prevH42);
mseI42 = mse (returns2-prevI42); mseJ42
= mse (returns2-prevJ42);
maeA42 = mae (returns2-prevA42); % Cálculo do erro absoluto médio
maeB42 = mae (returns2-prevB42);
maeC42 = mae (returns2-prevC42);
maeD42 = mae (returns2-prevD42);
maeE42 = mae (returns2-prevE42);
maeF42 = mae (returns2-prevF42);
maeG42 = mae (returns2-prevG42);
maeH42 = mae (returns2-prevH42);
maeI42 = mae (returns2-prevI42);
maeJ42 = mae (returns2-prevJ42);

% garch 43

[Hpp43, PValuepp43, TStatpp43, CValuepp43] = ppTSTest(teste, [0:4], 0.05); % Teste de Philips e
Perron – raiz unitaria

[hdf43, pValuedf43, tStatdf43, cValuedf43] = dfTSTest(teste, [0:4], [0.05], 't'); % Teste de
Dickey Fuller – raiz unitaria

[HppA43, PValueppA43, TStatppA43, CValueppA43] = ppTSTest(returns1, [0:4], 0.05); % Teste de
Philips e Perron – raiz unitaria

[hdfA43, pValuedfA43, tStatdfA43, cValuedfA43] = dfTSTest(returns1, [0:4], [0.05], 't'); % Teste de
Dickey Fuller – raiz unitaria

[HppB43, PValueppB43, TStatppB43, CValueppB43] = ppTSTest(returns2, [0:4], 0.05); % Teste de
Philips e Perron – raiz unitaria

[hdfB43, pValuedfB43, tStatdfB43, cValuedfB43] = dfTSTest(returns2, [0:4], [0.05], 't'); % Teste de
Dickey Fuller – raiz unitaria

[CorrA43 pValuecorrA43 StatcorrA43 CriticalValuecorrA43] = ...

lbqtest(returns1-mean(returns1),[20]',0.05); %presença de autocorrelação serial h=0 não há

```

correlação significativa

```
[CorrA43 pValuecorrA43 StatcorrA43 CriticalValuecorrA43];  
[HA43, pValueA43, StatA43, CriticalValueA43] = ...  
archtest(returns1-mean(returns1),[20]',0.05); %presença de efeito arch h=0 não existe efeito  
arch
```

```
[HA43, pValueA43, StatA43, CriticalValueA43];
```

```
m43 = garchset('Distribution', 'T', 'P', 3, 'Q', 4, ...
```

```
'VarianceModel', 'GARCH', 'Display','off');
```

```
[m43, errors43, LLF43, residuals43, sigmas43] = garchfit(m43, returns1);
```

```
garchdisp(m43, errors43) % Display the estimation results
```

```
[P43, DW43] = dwtest(residuals43,returns1); % durbin Watson
```

```
mAA43 = garchcount(m43); % conta parâmetros
```

```
[AIC43, BIC43] = aicbic(LLF43, mAA43,T); % Critérios de akaike e bayes
```

```
[CorrB43 pValuecorrB43 StatcorrB43 CriticalValuecorrB43] =...
```

```
lbqtest((residuals43./ sigmas43),[20]',0.05); % Presença de correlação serial nos resíduos do  
modelo estimado
```

```
[CorrB43 pValuecorrB43 StatcorrB43 CriticalValuecorrB43];
```

```
[HB43, pValueB43, StatB43, CriticalValueB43] = ...
```

```
archtest((residuals43./ sigmas43),[20]',0.05); %presença de efeito arch nos resíduos
```

```
[HB43, pValueB43, StatB43, CriticalValueB43];
```

```
standardizedResiduals43 = residuals43 ./ sigmas43; % padronização de resíduos
```

```
rand('state', 0) % iniciar números aleatórios para reprodução em massa – critério  
modificado do algoritmo de Marsaglia
```

```
nTrials = T2; % número de tentativas independentes e aleatórias
```

```
horizon = 10; % horizonte de previsão da variância
```

```
bootstrappedResiduals43 = standardizedResiduals43 (unidrnd(T2, horizon, nTrials));
```

```
preResidual43 = residuals43 ((T2-4):end); % pré amostra modelo de resíduos
```

```
preSigma43 = sigmas43 ((T2-4):end); % pré amostra de volatilidades preReturn43 =
```

```
returns1((T2-4):end); % retornos pré-definidos
```

```
[dummy43, dummy43, ...
```

```
previsao10dias43] = garchsim(m43, horizon, nTrials, ...
```

```
bootstrappedResiduals43 , [], returns2, ...
```

```
preResidual43, preSigma43, preReturn43); % matriz de previsão condicionada a primeira série
```

```
previsao43 = previsao10dias43'; % previsão 10 passos a frente
```

```
prevA43 = previsao43 (:,1); % séries individuais de previsão
```

```
prevB43 = previsao43 (:,2);
```

```
prevC43 = previsao43 (:,3);
```

```
prevD43 = previsao43 (:,4);
```

```
prevE43 = previsao43 (:,5);
```

```

prevF43 = previsao43 (:,6);
prevG43 = previsao43 (:,7);
prevH43 = previsao43 (:,8);
prevI43 = previsao43 (:,9);
prevJ43 = previsao43 (:,10);
mseA43 = mse (returns2-prevA43); % Cálculo do erro mínimo quadrado
mseB43 = mse (returns2-prevB43);
mseC43 = mse (returns2-prevC43);
mseD43 = mse (returns2-prevD43);
mseE43 = mse (returns2-prevE43);
mseF43 = mse (returns2-prevF43);
mseG43 = mse (returns2-prevG43);
mseH43 = mse (returns2-prevH43);
mseI43 = mse (returns2-prevI43); mseJ43
= mse (returns2-prevJ43);
maeA43 = mae (returns2-prevA43); % Cálculo do erro absoluto médio
maeB43 = mae (returns2-prevB43);
maeC43 = mae (returns2-prevC43);
maeD43 = mae (returns2-prevD43);
maeE43 = mae (returns2-prevE43);
maeF43 = mae (returns2-prevF43);
maeG43 = mae (returns2-prevG43);
maeH43 = mae (returns2-prevH43);
maeI43 = mae (returns2-prevI43);
maeJ43 = mae (returns2-prevJ43);

```

```
% garch 44
```

```
[Hpp44, PValuepp44, TStatpp44, CValuepp44] = ppTSTest(teste, [0:4], 0.05); % Teste de Philips e Perron – raiz unitaria
```

```
[hdf44, pValuedf44, tStatdf44, cValuedf44] = dfTSTest(teste, [0:4], [0.05], 't'); % Teste de Dickey Fuller – raiz unitaria
```

```
[HppA44, PValueppA44, TStatppA44, CValueppA44] = ppTSTest(returns1, [0:4], 0.05); % Teste de Philips e Perron – raiz unitaria
```

```
[hdfA44, pValuedfA44, tStatdfA44, cValuedfA44] = dfTSTest(returns1, [0:4], [0.05], 't'); % Teste de Dickey Fuller – raiz unitaria
```

```
[HppB44, PValueppB44, TStatppB44, CValueppB44] = ppTSTest(returns2, [0:4], 0.05); % Teste de Philips e Perron – raiz unitaria
```

```
[hdfB44, pValuedfB44, tStatdfB44, cValuedfB44] = dfTSTest(returns2, [0:4], [0.05], 't'); % Teste de Dickey Fuller – raiz unitaria
```

```
[CorrA44 pValuecorrA44 StatcorrA44 CriticalValuecorrA44] = ...
```

```
lbqtest(returns1-mean(returns1),[20]',0.05); %presença de autocorrelação serial h=0 não há correlação significativa
```

```
[CorrA44 pValuecorrA44 StatcorrA44 CriticalValuecorrA44];
```

```

[HA44, pValueA44, StatA44, CriticalValueA44] = ...
archtest(returns1-mean(returns1),[20]',0.05); %presença de efeito arch h=0 não existe efeito arch

[HA44, pValueA44, StatA44, CriticalValueA44];

m44 = garchset('Distribution', 'T' , 'P', 4, 'Q', 4, ...
'VarianceModel', 'GARCH', 'Display','off');

[m44, errors44, LLF44, residuals44, sigmas44] = garchfit(m44, returns1);

garchdisp(m44, errors44) % Display the estimation results

[P44, DW44] = dwtest(residuals44,returns1); % durbin Watson
mAA44 = garchcount(m44); % conta parâmetros

[AIC44, BIC44] = aicbic(LLF44, mAA44,T); % Critérios de akaike e bayes

[CorrB44 pValuecorrB44 StatcorrB44 CriticalValuecorrB44] =...

lbqtest((residuals44./ sigmas44),[20]',0.05); % Presença de correlação serial nos resíduos do
modelo estimado

[CorrB44 pValuecorrB44 StatcorrB44 CriticalValuecorrB44];

[HB44, pValueB44, StatB44, CriticalValueB44] = ...

archtest((residuals44./ sigmas44),[20]',0.05); %presença de efeito arch nos resíduos

[HB44, pValueB44, StatB44, CriticalValueB44];

standardizedResiduals44 = residuals44 ./ sigmas44; % padronização de resíduos
rand('state', 0) % iniciar números aleatórios para reprodução em massa – critério
modificado do algoritmo de Marsaglia

nTrials = T2; % número de tentativas independentes e aleatórias
horizon = 10; % horizonte de previsão da variância
bootstrappedResiduals44 = standardizedResiduals44 (unidrnd(T2, horizon, nTrials));

preResidual44 = residuals44 ((T2-4):end); % pré amostra modelo de resíduos
preSigma44 = sigmas44 ((T2-4):end); % pré amostra de volatilidades
preReturn44 = returns1((T2-4):end); % retornos pré-definidos
[dummy44, dummy44, ...

previsao10dias44] = garchsim(m44, horizon, nTrials, ...
bootstrappedResiduals44 , [], returns2, ...
preResidual44, preSigma44, preReturn44); % matriz de previsão condicionada a primeira série
previsao44 = previsao10dias44'; % previsão 10 passos a frente
prevA44 = previsao44 (:,1); % séries individuais de previsão
prevB44 = previsao44 (:,2);
prevC44 = previsao44 (:,3);
prevD44 = previsao44 (:,4);

```



```

prevE44 = previsao44 (:,5);
prevF44 = previsao44 (:,6);
prevG44 = previsao44 (:,7);
prevH44 = previsao44 (:,8);
prevI44 = previsao44 (:,9);
prevJ44 = previsao44 (:,10);
mseA44 = mse (returns2-prevA44); % Cálculo do erro mínimo quadrado
mseB44 = mse (returns2-prevB44);
mseC44 = mse (returns2-prevC44);
mseD44 = mse (returns2-prevD44);
mseE44= mse (returns2-prevE44);
mseF44 = mse (returns2-prevF44);
mseG44 = mse (returns2-prevG44);
mseH44 = mse (returns2-prevH44);
mseI44 = mse (returns2-prevI44); mseJ44
= mse (returns2-prevJ44);
maeA44 = mae (returns2-prevA44); % Cálculo do erro absoluto médio
maeB44 = mae (returns2-prevB44);
maeC44 = mae (returns2-prevC44);
maeD44 = mae (returns2-prevD44);
maeE44 = mae (returns2-prevE44);
maeF44 = mae (returns2-prevF44);
maeG44 = mae (returns2-prevG44);
maeH44 = mae (returns2-prevH44);
maeI44 = mae (returns2-prevI44); maeJ44
= mae (returns2-prevJ44);

```

```
% ARMA 11
```

```
[Hpp11a, PValuepp11a, TStatpp11a, CValuepp11a] = ppTSTest(teste, [0:4], 0.05); % Teste de Philips e Perron – raiz unitaria
```

```
[hdf11a, pValuedf11a, tStatdf11a, cValuedf11a] = dfTSTest(teste, [0:4], [0.05], 't'); % Teste de Dickey Fuller – raiz unitaria
```

```
[HppA11a, PValueppA11a, TStatppA11a, CValueppA11a] = ppTSTest(returns1, [0:4], 0.05); % Teste de Philips e Perron – raiz unitaria
```

```
[hdfA11a, pValuedfA11a, tStatdfA11a, cValuedfA11a] = dfTSTest(returns1, [0:4], [0.05], 't'); % Teste de Dickey Fuller – raiz unitaria
```

```
[HppB11a, PValueppB11a, TStatppB11a, CValueppB11a] = ppTSTest(returns2, [0:4], 0.05); % Teste de Philips e Perron – raiz unitaria
```

```
[hdfB11a, pValuedfB11a, tStatdfB11a, cValuedfB11a] = dfTSTest(returns2, [0:4], [0.05], 't'); % Teste de Dickey Fuller – raiz unitaria
```

```
[CorrA11a pValuecorrA11a StatcorrA11a CriticalValuecorrA11a] =...
```

```
lbqtest(returns1-mean(returns1),[20]',0.05); %presença de autocorrelação serial h=0 não há correlação significativa
```

```
[CorrA11a pValuecorrA11a StatcorrA11a CriticalValuecorrA11a];
[HA11a, pValueA11a, StatA11a, CriticalValueA11a] = ...
archtest(returns1-mean(returns1),[20]',0.05); %presença de efeito arch h=0 não existe efeito
arch
```

```
[HA11a, pValueA11a, StatA11a, CriticalValueA11a];
```

```
m11a = garchset('Distribution', 'T', 'R', 1, 'M', 1, ...
```

```
'Display','off');
```

```
[m11a, errors11a, LLF11a, residuals11a, sigmas11a] = garchfit(m11a, returns1);
```

```
garchdisp(m11a, errors11a) % Display the estimation results
```

```
[P11a, DW11a] = dwtest(residuals11a,returns1); % durbin Watson
```

```
mAA11a = garchcount(m11a); % conta parâmetros
```

```
[AIC11a, BIC11a] = aicbic(LLF11a, mAA11a,T); % Critérios de akaike e bayes
```

```
[CorrB11a pValuecorrB11a StatcorrB11a CriticalValuecorrB11a] =...
```

```
lbqtest((residuals11a./ sigmas11a),[20]',0.05); % Presença de correlação serial nos resíduos do
modelo estimado
```

```
[CorrB11a pValuecorrB11a StatcorrB11a CriticalValuecorrB11a];
```

```
[HB11a, pValueB11a, StatB11a, CriticalValueB11a] = ...
```

```
archtest((residuals11a./ sigmas11a),[20]',0.05); %presença de efeito arch nos resíduos
```

```
[HB11a, pValueB11a, StatB11a, CriticalValueB11a];
```

```
standardizedResiduals11a = residuals11a ./ sigmas11a; % padronização de resíduos
```

```
rand('state', 0) % iniciar números aleatórios para reprodução em massa – critério
modificado do algoritmo de Marsaglia
```

```
nTrials = T2; % número de tentativas independentes e aleatórias
```

```
horizon = 10; % horizonte de previsão da variância
```

```
bootstrappedResiduals11a = standardizedResiduals11a (unidrnd(T2, horizon, nTrials));
```

```
preResidual11a = residuals11a ((T2-4):end); % pré amostra modelo de resíduos
```

```
preSigma11a = sigmas11a ((T2-4):end); % pré amostra de volatilidades
```

```
preReturn11a = returns1((T2-4):end); % retornos pré-definidos
```

```
[dummy11a, dummy11a, ...
```

```
previsao10dias11a] = garchsim(m11a, horizon, nTrials, ...
```

```
bootstrappedResiduals11a, [], returns2, ...
```

```
preResidual11a, preSigma11a, preReturn11a); % matriz de previsão condicionada a primeira
série
```

```
previsao11a = previsao10dias11a'; % previsão 10 passos a frente
```

```
prevA11a = previsao11a (:,1); % séries individuais de previsão
```

```
prevB11a = previsao11a (:,2);
```

```
prevC11a = previsao11a (:,3);
```

```
prevD11a = previsao11a (:,4);  
prevE11a = previsao11a (:,5);  
prevF11a = previsao11a (:,6);  
prevG11a = previsao11a (:,7);  
prevH11a = previsao11a (:,8);
```

```

prevI11a = previsao11a (:,9);
prevJ11a = previsao11a (:,10);
mseA11a = mse (returns2-prevA11a); % Cálculo do erro mínimo quadrado
mseB11a = mse (returns2-prevB11a);
mseC11a = mse (returns2-prevC11a);
mseD11a = mse (returns2-prevD11a);
mseE11a= mse (returns2-prevE11a);
mseF11a = mse (returns2-prevF11a);
mseG11a = mse (returns2-prevG11a);
mseH11a = mse (returns2-prevH11a);
mseI11a = mse (returns2-prevI11a);
mseJ11a = mse (returns2-prevJ11a);
maeA11a = mae (returns2-prevA11a); % Cálculo do erro absoluto médio
maeB11a = mae (returns2-prevB11a);
maeC11a = mae (returns2-prevC11a);
maeD11a = mae (returns2-prevD11a);
maeE11a = mae (returns2-prevE11a);
maeF11a = mae (returns2-prevF11a);
maeG11a = mae (returns2-prevG11a);
maeH11a = mae (returns2-prevH11a);
maeI11a = mae (returns2-prevI11a);
maeJ11a = mae (returns2-prevJ11a);

% ARMA 12
[Hpp12a, PValuepp12a, TStatpp12a, CValuepp12a] = ppTSTest(teste, [0:4], 0.05); % Teste de
Philips e Perron – raiz unitaria

[hdf12a, pValuedf12a, tStatdf12a, cValuedf12a] = dfTSTest(teste, [0:4], [0.05], 't'); % Teste de
Dickey Fuller – raiz unitaria

[HppA12a, PValueppA12a, TStatppA12a, CValueppA12a] = ppTSTest(returns1, [0:4], 0.05); % Teste
de Philips e Perron – raiz unitaria

[hdfA12a, pValuedfA12a, tStatdfA12a, cValuedfA12a] = dfTSTest(returns1, [0:4], [0.05], 't'); % Teste
de Dickey Fuller – raiz unitaria

[HppB12a, PValueppB12a, TStatppB12a, CValueppB12a] = ppTSTest(returns2, [0:4], 0.05); % Teste
de Philips e Perron – raiz unitaria

[hdfB12a, pValuedfB12a, tStatdfB12a, cValuedfB12a] = dfTSTest(returns2, [0:4], [0.05], 't'); % Teste
de Dickey Fuller – raiz unitaria

[CorrA12a pValuecorrA12a StatcorrA12a CriticalValuecorrA12a] = ...

lbqtest(returns1-mean(returns1),[20]',0.05); %presença de autocorrelação serial h=0 não há
correlação significativa

[CorrA12a pValuecorrA12a StatcorrA12a CriticalValuecorrA12a];
[HA12a, pValueA12a, StatA12a, CriticalValueA12a] = ...
archtest(returns1-mean(returns1),[20]',0.05); %presença de efeito arch h=0 não existe efeito
arch

```

```

[HA12a, pValueA12a, StatA12a, CriticalValueA12a];

m12a = garchset('Distribution', 'T', 'R', 1, 'M', 2, ...
'Display','off');

[m12a, errors12a, LLF12a, residuals12a, sigmas12a] = garchfit(m12a, returns1);

garchdisp(m12a, errors12a) % Display the estimation results

[P12a, DW12a] = dwtest(residuals12a,returns1); % durbin Watson
mAA12a = garchcount(m12a); % conta parâmetros
[AIC12a, BIC12a] = aicbic(LLF12a, mAA12a,T); % Critérios de akaike e bayes
[CorrB12a pValuecorrB12a StatcorrB12a CriticalValuecorrB12a] =...

lbqctest((residuals12a./ sigmas12a),[20]',0.05); % Presença de correlação serial nos resíduos do
modelo estimado

[CorrB12a pValuecorrB12a StatcorrB12a CriticalValuecorrB12a];

[HB12a, pValueB12a, StatB12a, CriticalValueB12a] = ...

archtest((residuals12a./ sigmas12a),[20]',0.05); %presença de efeito arch nos resíduos

[HB12a, pValueB12a, StatB12a, CriticalValueB12a];
standardizedResiduals12a = residuals12a ./ sigmas12a; % padronização de resíduos
rand('state', 0) % iniciar números aleatórios para reprodução em massa – critério
modificado do algoritmo de Marsaglia

nTrials = T2; % número de tentativas independentes e aleatórias
horizon = 10; % horizonte de previsão da variância
bootstrappedResiduals12a = standardizedResiduals12a (unidrnd(T2, horizon, nTrials));

preResidual12a = residuals12a ((T2-4):end); % pré amostra modelo de resíduos
preSigma12a = sigmas12a ((T2-4):end); % pré amostra de volatilidades
preReturn12a = returns1((T2-4):end); % retornos pré-definidos
[dummy12a, dummy12a, ...

previsao10dias12a] = garchsim(m12a, horizon, nTrials, ...
bootstrappedResiduals12a, [], returns2, ...
preResidual12a, preSigma12a, preReturn12a); % matriz de previsão condicionada a primeira série

previsao12a = previsao10dias12a'; % previsão 10 passos a frente
prevA12a = previsao12a (:,1); % séries individuais de previsão
prevB12a = previsao12a (:,2);
prevC12a = previsao12a (:,3);
prevD12a = previsao12a (:,4);
prevE12a = previsao12a (:,5);
prevF12a = previsao12a (:,6);
prevG12a = previsao12a (:,7);
prevH12a = previsao12a (:,8);

```

```
prevI12a = previsao12a (:,9);  
prevJ12a = previsao12a (:,10);  
mseA12a = mse (returns2-prevA12a); % Cálculo do erro mínimo quadrado  
mseB12a = mse (returns2-prevB12a);  
mseC12a = mse (returns2-prevC12a);
```

```

mseD12a = mse (returns2-prevD12a);
mseE12a= mse (returns2-prevE12a);
mseF12a = mse (returns2-prevF12a);
mseG12a = mse (returns2-prevG12a);
mseH12a = mse (returns2-prevH12a);
mseI12a = mse (returns2-prevI12a);
mseJ12a = mse (returns2-prevJ12a);
maeA12a = mae (returns2-prevA12a); % Cálculo do erro absoluto médio
maeB12a = mae (returns2-prevB12a);
maeC12a = mae (returns2-prevC12a);
maeD12a = mae (returns2-prevD12a);
maeE12a = mae (returns2-prevE12a);
maeF12a = mae (returns2-prevF12a);
maeG12a = mae (returns2-prevG12a);
maeH12a = mae (returns2-prevH12a);
maeI12a = mae (returns2-prevI12a);
maeJ12a = mae (returns2-prevJ12a);

```

```
% ARMA 13
```

```
[Hpp13a, PValuepp13a, TStatpp13a, CValuepp13a] = ppTSTest(teste, [0:4], 0.05); % Teste de Philips e Perron – raiz unitaria
```

```
[hdf13a, pValuedf13a, tStatdf13a, cValuedf13a] = dfTSTest(teste, [0:4], [0.05], 't'); % Teste de Dickey Fuller – raiz unitaria
```

```
[HppA13a, PValueppA13a, TStatppA13a, CValueppA13a] = ppTSTest(returns1, [0:4], 0.05); % Teste de Philips e Perron – raiz unitaria
```

```
[hdfA13a, pValuedfA13a, tStatdfA13a, cValuedfA13a] = dfTSTest(returns1, [0:4], [0.05], 't'); % Teste de Dickey Fuller – raiz unitaria
```

```
[HppB13a, PValueppB13a, TStatppB13a, CValueppB13a] = ppTSTest(returns2, [0:4], 0.05); % Teste de Philips e Perron – raiz unitaria
```

```
[hdfB13a, pValuedfB13a, tStatdfB13a, cValuedfB13a] = dfTSTest(returns2, [0:4], [0.05], 't'); % Teste de Dickey Fuller – raiz unitaria
```

```
[CorrA13a pValuecorrA13a StatcorrA13a CriticalValuecorrA13a] =...
```

```
lbqtest(returns1-mean(returns1),[20]',0.05); %presença de autocorrelação serial h=0 não há correlação significativa
```

```
[CorrA13a pValuecorrA13a StatcorrA13a CriticalValuecorrA13a];
```

```
[HA13a, pValueA13a, StatA13a, CriticalValueA13a] = ...
```

```
archtest(returns1-mean(returns1),[20]',0.05); %presença de efeito arch h=0 não existe efeito arch
```

```
[HA13a, pValueA13a, StatA13a, CriticalValueA13a];
```

```
m13a = garchset('Distribution' , 'T' , 'R', 1, 'M', 3, ...
```

```
'Display','off');
```

```

[m13a, errors13a, LLF13a, residuals13a, sigmas13a] = garchfit(m13a, returns1);

garchdisp(m13a, errors13a) % Display the estimation results

[P13a, DW13a] = dwtest(residuals13a,returns1); % durbin Watson
mAA13a = garchcount(m13a); % conta parâmetros
[AIC13a, BIC13a] = aicbic(LLF13a, mAA13a,T); % Critérios de akaike e bayes

[CorrB13a pValuecorrB13a StatcorrB13a CriticalValuecorrB13a] =...

lbqtest((residuals13a./ sigmas13a),[20]',0.05); % Presença de correlação serial nos resíduos do
modelo estimado

[CorrB13a pValuecorrB13a StatcorrB13a CriticalValuecorrB13a];

[HB13a, pValueB13a, StatB13a, CriticalValueB13a] = ...

archtest((residuals13a./ sigmas13a),[20]',0.05); %presença de efeito arch nos resíduos

[HB13a, pValueB13a, StatB13a, CriticalValueB13a];

standardizedResiduals13a = residuals13a ./ sigmas13a; % padronização de resíduos
rand('state', 0) % iniciar números aleatórios para reprodução em massa – critério
modificado do algoritmo de Marsaglia

nTrials = T2; % número de tentativas independentes e aleatórias
horizon = 10; % horizonte de previsão da variância
bootstrappedResiduals13a = standardizedResiduals13a (unidrnd(T2, horizon, nTrials));

preResidual13a = residuals13a ((T2-4):end); % pré amostra modelo de resíduos
preSigma13a = sigmas13a ((T2-4):end); % pré amostra de volatilidades
preReturn13a = returns1((T2-4):end); % retornos pré-definidos
[dummy13a, dummy13a, ...

previsao10dias13a] = garchsim(m13a, horizon, nTrials, ...
bootstrappedResiduals13a , [], returns2, ...
preResidual13a, preSigma13a, preReturn13a); % matriz de previsão condicionada a primeira
série

previsao13a = previsao10dias13a'; % previsão 10 passos a frente
prevA13a = previsao13a (:,1); % séries individuais de previsão
prevB13a = previsao13a (:,2);
prevC13a = previsao13a (:,3);
prevD13a = previsao13a (:,4);
prevE13a = previsao13a (:,5);
prevF13a = previsao13a (:,6);
prevG13a = previsao13a (:,7);
prevH13a = previsao13a (:,8);
prevI13a = previsao13a (:,9);
prevJ13a = previsao13a (:,10);
mseA13a = mse (returns2-prevA13a); % Cálculo do erro mínimo quadrado
mseB13a = mse (returns2-prevB13a);

```



```

mseC13a = mse (returns2-prevC13a);
mseD13a = mse (returns2-prevD13a);
mseE13a= mse (returns2-prevE13a);
mseF13a = mse (returns2-prevF13a);
mseG13a = mse (returns2-prevG13a);
mseH13a = mse (returns2-prevH13a);
mseI13a = mse (returns2-prevI13a);
mseJ13a = mse (returns2-prevJ13a);
maeA13a = mae (returns2-prevA13a); % Cálculo do erro absoluto médio
maeB13a = mae (returns2-prevB13a);
maeC13a = mae (returns2-prevC13a);
maeD13a = mae (returns2-prevD13a);
maeE13a = mae (returns2-prevE13a);
maeF13a = mae (returns2-prevF13a);
maeG13a = mae (returns2-prevG13a);
maeH13a = mae (returns2-prevH13a);
maeI13a = mae (returns2-prevI13a);
maeJ13a = mae (returns2-prevJ13a);

% ARMA 14

[Hpp14a, PValuepp14a, TStatpp14a, CValuepp14a] = ppTSTest(teste, [0:4], 0.05); % Teste de
Philips e Perron – raiz unitaria

[hdf14a, pValuedf14a, tStatdf14a, cValuedf14a] = dfTSTest(teste, [0:4], [0.05], 't'); % Teste de
Dickey Fuller – raiz unitaria

[HppA14a, PValueppA14a, TStatppA14a, CValueppA14a] = ppTSTest(returns1, [0:4], 0.05); %
Teste de Philips e Perron – raiz unitaria

[hdfA14a, pValuedfA14a, tStatdfA14a, cValuedfA14a] = dfTSTest(returns1, [0:4], [0.05], 't'); %
Teste de Dickey Fuller – raiz unitaria

[HppB14a, PValueppB14a, TStatppB14a, CValueppB14a] = ppTSTest(returns2, [0:4], 0.05); %
Teste de Philips e Perron – raiz unitaria

[hdfB14a, pValuedfB14a, tStatdfB14a, cValuedfB14a] = dfTSTest(returns2, [0:4], [0.05], 't'); %
Teste de Dickey Fuller – raiz unitaria

[CorrA14a pValuecorrA14a StatcorrA14a CriticalValuecorrA14a] =...

lbqtest(returns1-mean(returns1),[20]',0.05); %presença de autocorrelação serial h=0 não há
correlação significativa

[CorrA14a pValuecorrA14a StatcorrA14a CriticalValuecorrA14a]
[HA14a, pValueA14a, StatA14a, CriticalValueA14a] = ...

archtest(returns1-mean(returns1),[20]',0.05); %presença de efeito arch h=0 não existe efeito arch

[HA14a, pValueA14a, StatA14a, CriticalValueA14a];

m14a = garchset('Distribution', 'T', 'R', 1, 'M', 4, ...

```

```

'Display','off');

[m14a, errors14a, LLF14a, residuals14a, sigmas14a] = garchfit(m14a, returns1);

garchdisp(m14a, errors14a) % Display the estimation results

[P14a, DW14a] = dwtest(residuals14a,returns1); % durbin Watson
mAA14a = garchcount(m14a); % conta parâmetros
[AIC14a, BIC14a] = aicbic(LLF14a, mAA14a,T); % Critérios de akaike e bayes

[CorrB14a pValuecorrB14a StatcorrB14a CriticalValuecorrB14a] =...

lbqtest((residuals14a./ sigmas14a),[20]',0.05); % Presença de correlação serial nos resíduos do
modelo estimado

[CorrB14a pValuecorrB14a StatcorrB14a CriticalValuecorrB14a];

[HB14a, pValueB14a, StatB14a, CriticalValueB14a] = ...

archtest((residuals14a./ sigmas14a),[20]',0.05); %presença de efeito arch nos resíduos

[HB14a, pValueB14a, StatB14a, CriticalValueB14a];

standardizedResiduals14a = residuals14a ./ sigmas14a; % padronização de resíduos
rand('state', 0) % iniciar números aleatórios para reprodução em massa – critério
modificado do algoritmo de Marsaglia

nTrials = T2; % número de tentativas independentes e aleatórias
horizon = 10; % horizonte de previsão da variância
bootstrappedResiduals14a = standardizedResiduals14a (unidrnd(T2, horizon, nTrials));

preResidual14a = residuals14a ((T2-4):end); % pré amostra modelo de resíduos
preSigma14a = sigmas14a ((T2-4):end); % pré amostra de volatilidades
preReturn14a = returns1((T2-4):end); % retornos pré-definidos

[dummy14a, dummy14a, ...

previsao10dias14a] = garchsim(m14a, horizon, nTrials, ...
bootstrappedResiduals14a , [], returns2, ...
preResidual14a, preSigma14a, preReturn14a); % matriz de previsão condicionada a primeira
série

previsao14a = previsao10dias14a'; % previsão 10 passos a frente
prevA14a = previsao14a (:,1); % séries individuais de previsão
prevB14a = previsao14a (:,2);
prevC14a = previsao14a (:,3);
prevD14a = previsao14a (:,4);
prevE14a = previsao14a (:,5);
prevF14a = previsao14a (:,6);
prevG14a = previsao14a (:,7);
prevH14a = previsao14a (:,8);
prevI14a = previsao14a (:,9);
prevJ14a = previsao14a (:,10);

```

```

mseA14a = mse (returns2-prevA14a); % Cálculo do erro mínimo quadrado
mseB14a = mse (returns2-prevB14a);
mseC14a = mse (returns2-prevC14a);
mseD14a = mse (returns2-prevD14a);
mseE14a= mse (returns2-prevE14a);
mseF14a = mse (returns2-prevF14a);
mseG14a = mse (returns2-prevG14a);
mseH14a = mse (returns2-prevH14a);
mseI14a = mse (returns2-prevI14a);
mseJ14a = mse (returns2-prevJ14a);
maeA14a = mae (returns2-prevA14a); % Cálculo do erro absoluto médio
maeB14a = mae (returns2-prevB14a);
maeC14a = mae (returns2-prevC14a);
maeD14a = mae (returns2-prevD14a);
maeE14a = mae (returns2-prevE14a);
maeF14a = mae (returns2-prevF14a);
maeG14a = mae (returns2-prevG14a);
maeH14a = mae (returns2-prevH14a);
maeI14a = mae (returns2-prevI14a);
maeJ14a = mae (returns2-prevJ14a);

% ARMA 21

[Hpp21a, PValuepp21a, TStatpp21a, CValuepp21a] = ppTSTest(teste, [0:4], 0.05); % Teste de
Philips e Perron – raiz unitaria

[hdf21a, pValuedf21a, tStatdf21a, cValuedf21a] = dfTSTest(teste, [0:4], [0.05], 't'); % Teste de
Dickey Fuller – raiz unitaria

[HppA21a, PValueppA21a, TStatppA21a, CValueppA21a] = ppTSTest(returns1, [0:4], 0.05); %
Teste de Philips e Perron – raiz unitaria

[hdfA21a, pValuedfA21a, tStatdfA21a, cValuedfA21a] = dfTSTest(returns1, [0:4], [0.05], 't'); %
Teste de Dickey Fuller – raiz unitaria

[HppB21a, PValueppB21a, TStatppB21a, CValueppB21a] = ppTSTest(returns2, [0:4], 0.05); %
Teste de Philips e Perron – raiz unitaria

[hdfB21a, pValuedfB21a, tStatdfB21a, cValuedfB21a] = dfTSTest(returns2, [0:4], [0.05], 't'); %
Teste de Dickey Fuller – raiz unitaria

[CorrA21a pValuecorrA21a StatcorrA21a CriticalValuecorrA21a] =...

lbqtest(returns1-mean(returns1),[20]',0.05); %presença de autocorrelação serial h=0 não há
correlação significativa

[CorrA21a pValuecorrA21a StatcorrA21a CriticalValuecorrA21a];

[HA21a, pValueA21a, StatA21a, CriticalValueA21a] = ...

archtest(returns1-mean(returns1),[20]',0.05); %presença de efeito arch h=0 não existe efeito arch

[HA21a, pValueA21a, StatA21a, CriticalValueA21a];

```

```

m21a = garchset('Distribution', 'T', 'R', 2, 'M', 1, ...
'Display','off');

[m21a, errors21a, LLF21a, residuals21a, sigmas21a] = garchfit(m21a, returns1);

garchdisp(m21a, errors21a) % Display the estimation results

[P21a, DW21a] = dwtest(residuals21a,returns1); % durbin Watson
mAA21a = garchcount(m21a); % conta parâmetros
[AIC21a, BIC21a] = aicbic(LLF21a, mAA21a,T); % Critérios de akaike e bayes

[CorrB21a pValuecorrB21a StatcorrB21a CriticalValuecorrB21a] =...

lbqtest((residuals21a./ sigmas21a),[20]',0.05); % Presença de correlação serial nos resíduos do
modelo estimado

[CorrB21a pValuecorrB21a StatcorrB21a CriticalValuecorrB21a];

[HB21a, pValueB21a, StatB21a, CriticalValueB21a] = ...

archtest((residuals21a./ sigmas21a),[20]',0.05); %presença de efeito arch nos resíduos

[HB21a, pValueB21a, StatB21a, CriticalValueB21a];
standardizedResiduals21a = residuals21a ./ sigmas21a; % padronização de resíduos
rand('state', 0) % iniciar números aleatórios para reprodução em massa – critério
modificado do algoritmo de Marsaglia

nTrials = T2; % número de tentativas independentes e aleatórias
horizon = 10; % horizonte de previsão da variância
bootstrappedResiduals21a = standardizedResiduals21a (unidrnd(T2, horizon, nTrials));

preResidual21a = residuals21a ((T2-4):end); % pré amostra modelo de resíduos
preSigma21a = sigmas21a ((T2-4):end); % pré amostra de volatilidades
preReturn21a = returns1((T2-4):end); % retornos pré-definidos
[dummy21a, dummy21a, ...

previsao10dias21a] = garchsim(m21a, horizon, nTrials, ...
bootstrappedResiduals21a , [], returns2, ...
preResidual21a, preSigma21a, preReturn21a); % matriz de previsão condicionada a primeira
série

previsao21a = previsao10dias21a'; % previsão 10 passos a frente
prevA21a = previsao21a (:,1); % séries individuais de previsão
prevB21a = previsao21a (:,2);
prevC21a = previsao21a (:,3);

prevD21a = previsao21a (:,4);
prevE21a = previsao21a (:,5);
prevF21a = previsao21a (:,6);
prevG21a = previsao21a (:,7);
prevH21a = previsao21a (:,8);

```

```

prevI21a = previsao21a (:,9);
prevJ21a = previsao21a (:,10);
mseA21a = mse (returns2-prevA21a); % Cálculo do erro mínimo quadrado
mseB21a = mse (returns2-prevB21a);
mseC21a = mse (returns2-prevC21a);
mseD21a = mse (returns2-prevD21a);
mseE21a= mse (returns2-prevE21a);
mseF21a = mse (returns2-prevF21a);
mseG21a = mse (returns2-prevG21a);
mseH21a = mse (returns2-prevH21a);
mseI21a = mse (returns2-prevI21a);
mseJ21a = mse (returns2-prevJ21a);
maeA21a = mae (returns2-prevA21a); % Cálculo do erro absoluto médio
maeB21a = mae (returns2-prevB21a);
maeC21a = mae (returns2-prevC21a);
maeD21a = mae (returns2-prevD21a);
maeE21a = mae (returns2-prevE21a);
maeF21a = mae (returns2-prevF21a);
maeG21a = mae (returns2-prevG21a);
maeH21a = mae (returns2-prevH21a);
maeI21a = mae (returns2-prevI21a);
maeJ21a = mae (returns2-prevJ21a);
% ARMA 22

[Hpp22a, PValuepp22a, TStatpp22a, CValuepp22a] = ppTSTest(teste, [0:4], 0.05); % Teste de
Philips e Perron – raiz unitaria

[hdf22a, pValuedf22a, tStatdf22a, cValuedf22a] = dfTSTest(teste, [0:4], [0.05], 't'); % Teste de
Dickey Fuller – raiz unitaria

[HppA22a, PValueppA22a, TStatppA22a, CValueppA22a] = ppTSTest(returns1, [0:4], 0.05); %
Teste de Philips e Perron – raiz unitaria

[hdfA22a, pValuedfA22a, tStatdfA22a, cValuedfA22a] = dfTSTest(returns1, [0:4], [0.05], 't'); %
Teste de Dickey Fuller – raiz unitaria

[HppB22a, PValueppB22a, TStatppB22a, CValueppB22a] = ppTSTest(returns2, [0:4], 0.05); %
Teste de Philips e Perron – raiz unitaria

[hdfB22a, pValuedfB22a, tStatdfB22a, cValuedfB22a] = dfTSTest(returns2, [0:4], [0.05], 't'); %
Teste de Dickey Fuller – raiz unitaria

[CorrA22a pValuecorrA22a StatcorrA22a CriticalValuecorrA22a] =...

lbqtest(returns1-mean(returns1),[20]',0.05); %presença de autocorrelação serial h=0 não há
correlação significativa

[CorrA22a pValuecorrA22a StatcorrA22a CriticalValuecorrA22a];

[HA22a, pValueA22a, StatA22a, CriticalValueA22a] = ...

archtest(returns1-mean(returns1),[20]',0.05); %presença de efeito arch h=0 não existe efeito arch

```

```

[HA22a, pValueA22a, StatA22a, CriticalValueA22a];

m22a = garchset('Distribution', 'T', 'R', 2, 'M', 2, ...
'Display', 'off');

[m22a, errors22a, LLF22a, residuals22a, sigmas22a] = garchfit(m22a, returns1);

garchdisp(m22a, errors22a) % Display the estimation results

[P22a, DW22a] = dwtest(residuals22a, returns1); % durbin Watson
mAA22a = garchcount(m22a); % conta parâmetros
[AIC22a, BIC22a] = aicbic(LLF22a, mAA22a, T); % Critérios de akaike e bayes

[CorrB22a pValuecorrB22a StatcorrB22a CriticalValuecorrB22a] = ...

lbqtest((residuals22a./ sigmas22a), [20], 0.05); % Presença de correlação serial nos resíduos do
modelo estimado

[CorrB22a pValuecorrB22a StatcorrB22a CriticalValuecorrB22a];

[HB22a, pValueB22a, StatB22a, CriticalValueB22a] = ...

archtest((residuals22a./ sigmas22a), [20], 0.05); % presença de efeito arch nos resíduos

[HB22a, pValueB22a, StatB22a, CriticalValueB22a];

standardizedResiduals22a = residuals22a ./ sigmas22a; % padronização de resíduos
rand('state', 0) % iniciar números aleatórios para reprodução em massa – critério
modificado do algoritmo de Marsaglia

nTrials = T2; % número de tentativas independentes e aleatórias
horizon = 10; % horizonte de previsão da variância
bootstrappedResiduals22a = standardizedResiduals22a (unidrnd(T2, horizon, nTrials));
preResidual22a = residuals22a ((T2-4):end); % pré amostra modelo de resíduos
preSigma22a = sigmas22a ((T2-4):end); % pré amostra de volatilidades preReturn22a
= returns1((T2-4):end); % retornos pré-definidos
[dummy22a, dummy22a, ...

previsao10dias22a] = garchsim(m22a, horizon, nTrials, ...
bootstrappedResiduals22a, [], returns2, ...
preResidual22a, preSigma22a, preReturn22a); % matriz de previsão condicionada a primeira
série

previsao22a = previsao10dias22a'; % previsão 10 passos a frente
prevA22a = previsao22a (:,1); % séries individuais de previsão
prevB22a = previsao22a (:,2);
prevC22a = previsao22a (:,3);

prevD22a = previsao22a (:,4);
prevE22a = previsao22a (:,5);
prevF22a = previsao22a (:,6);

```

```

prevG22a = previsao22a (:,7);
prevH22a = previsao22a (:,8);
prevI22a = previsao22a (:,9);
prevJ22a = previsao22a (:,10);
mseA22a = mse (returns2-prevA22a); % Cálculo do erro mínimo quadrado
mseB22a = mse (returns2-prevB22a);
mseC22a = mse (returns2-prevC22a);
mseD22a = mse (returns2-prevD22a);
mseE22a= mse (returns2-prevE22a);
mseF22a = mse (returns2-prevF22a);
mseG22a = mse (returns2-prevG22a);
mseH22a = mse (returns2-prevH22a);
mseI22a = mse (returns2-prevI22a);
mseJ22a = mse (returns2-prevJ22a);
maeA22a = mae (returns2-prevA22a); % Cálculo do erro absoluto médio
maeB22a = mae (returns2-prevB22a);
maeC22a = mae (returns2-prevC22a);
maeD22a = mae (returns2-prevD22a);
maeE22a = mae (returns2-prevE22a);
maeF22a = mae (returns2-prevF22a);
maeG22a = mae (returns2-prevG22a);
maeH22a = mae (returns2-prevH22a);
maeI22a = mae (returns2-prevI22a);
maeJ22a = mae (returns2-prevJ22a);

```

% ARMA 23

```

[Hpp23a, PValuepp23a, TStatpp23a, CValuepp23a] = ppTSTest(teste, [0:4], 0.05); % Teste de
Philips e Perron – raiz unitaria

```

```

[hdf23a, pValuedf23a, tStatdf23a, cValuedf23a] = dfTSTest(teste, [0:4], [0.05], 't'); % Teste de
Dickey Fuller – raiz unitaria

```

```

[HppA23a, PValueppA23a, TStatppA23a, CValueppA23a] = ppTSTest(returns1, [0:4], 0.05); %
Teste de Philips e Perron – raiz unitaria

```

```

[hdfA23a, pValuedfA23a, tStatdfA23a, cValuedfA23a] = dfTSTest(returns1, [0:4], [0.05], 't'); %
Teste de Dickey Fuller – raiz unitaria

```

```

[HppB23a, PValueppB23a, TStatppB23a, CValueppB23a] = ppTSTest(returns2, [0:4], 0.05); %
Teste de Philips e Perron – raiz unitaria

```

```

[hdfB23a, pValuedfB23a, tStatdfB23a, cValuedfB23a] = dfTSTest(returns2, [0:4], [0.05], 't'); %
Teste de Dickey Fuller – raiz unitaria

```

```

[CorrA23a pValuecorrA23a StatcorrA23a CriticalValuecorrA23a] =...

```

```

lbqtest(returns1-mean(returns1),[20]',0.05); %presença de autocorrelação serial h=0 não há
correlação significativa

```

```

[CorrA23a pValuecorrA23a StatcorrA23a CriticalValuecorrA23a];

```

```

[HA23a, pValueA23a, StatA23a, CriticalValueA23a] = ...

archtest(returns1-mean(returns1),[20]',0.05); %presença de efeito arch h=0 não existe efeito arch

[HA23a, pValueA23a, StatA23a, CriticalValueA23a];

m23a = garchset('Distribution', 'T', 'R', 2, 'M', 3, ...
'Display','off');

[m23a, errors23a, LLF23a, residuals23a, sigmas23a] = garchfit(m23a, returns1);

garchdisp(m23a, errors23a) % Display the estimation results

[P23a, DW23a] = dwtest(residuals23a,returns1); % durbin Watson
mAA23a = garchcount(m23a); % conta parâmetros
[AIC23a, BIC23a] = aicbic(LLF23a, mAA23a,T); % Critérios de akaike e bayes
[CorrB23a pValuecorrB23a StatcorrB23a CriticalValuecorrB23a] =...

lbqtest((residuals23a./ sigmas23a),[20]',0.05); % Presença de correlação serial nos resíduos do
modelo estimado

[CorrB23a pValuecorrB23a StatcorrB23a CriticalValuecorrB23a];

[HB23a, pValueB23a, StatB23a, CriticalValueB23a] = ...

archtest((residuals23a./ sigmas23a),[20]',0.05); %presença de efeito arch nos resíduos

[HB23a, pValueB23a, StatB23a, CriticalValueB23a];

standardizedResiduals23a = residuals23a ./ sigmas23a; % padronização de resíduos
rand('state', 0) % iniciar números aleatórios para reprodução em massa – critério
modificado do algoritmo de Marsaglia

nTrials = T2; % número de tentativas independentes e aleatórias
horizon = 10; % horizonte de previsão da variância
bootstrappedResiduals23a = standardizedResiduals23a (unidrnd(T2, horizon, nTrials));
preResidual23a = residuals23a ((T2-4):end); % pré amostra modelo de resíduos
preSigma23a = sigmas23a ((T2-4):end); % pré amostra de volatilidades preReturn23a
= returns1((T2-4):end); % retornos pré-definidos
[dummy23a, dummy23a, ...

previsao10dias23a] = garchsim(m23a, horizon, nTrials, ...
bootstrappedResiduals23a, [], returns2, ...
preResidual23a, preSigma23a, preReturn23a); % matriz de previsão condicionada a primeira série

previsao23a = previsao10dias23a'; % previsão 10 passos a frente
prevA23a = previsao23a (:,1); % séries individuais de previsão
prevB23a = previsao23a (:,2);
prevC23a = previsao23a (:,3);
prevD23a = previsao23a (:,4);

```



```

prevE23a = previsao23a (:,5);
prevF23a = previsao23a (:,6);
prevG23a = previsao23a (:,7);
prevH23a = previsao23a (:,8);
prevI23a = previsao23a (:,9);
prevJ23a = previsao23a (:,10);
mseA23a = mse (returns2-prevA23a); % Cálculo do erro mínimo quadrado
mseB23a = mse (returns2-prevB23a);
mseC23a = mse (returns2-prevC23a);
mseD23a = mse (returns2-prevD23a);
mseE23a = mse (returns2-prevE23a);
mseF23a = mse (returns2-prevF23a);
mseG23a = mse (returns2-prevG23a);
mseH23a = mse (returns2-prevH23a);
mseI23a = mse (returns2-prevI23a);
mseJ23a = mse (returns2-prevJ23a);
maeA23a = mae (returns2-prevA23a); % Cálculo do erro absoluto médio
maeB23a = mae (returns2-prevB23a);
maeC23a = mae (returns2-prevC23a);
maeD23a = mae (returns2-prevD23a);
maeE23a = mae (returns2-prevE23a);
maeF23a = mae (returns2-prevF23a);
maeG23a = mae (returns2-prevG23a);
maeH23a = mae (returns2-prevH23a);
maeI23a = mae (returns2-prevI23a);
maeJ23a = mae (returns2-prevJ23a);

```

```
% ARMA 24
```

```
[Hpp24a, PValuepp24a, TStatpp24a, CValuepp24a] = ppTSTest(teste, [0:4], 0.05); % Teste de Philips e Perron – raiz unitaria
```

```
[hdf24a, pValuedf24a, tStatdf24a, cValuedf24a] = dfTSTest(teste, [0:4], [0.05], 't'); % Teste de Dickey Fuller – raiz unitaria
```

```
[HppA24a, PValueppA24a, TStatppA24a, CValueppA24a] = ppTSTest(returns1, [0:4], 0.05); % Teste de Philips e Perron – raiz unitaria
```

```
[hdfA24a, pValuedfA24a, tStatdfA24a, cValuedfA24a] = dfTSTest(returns1, [0:4], [0.05], 't'); % Teste de Dickey Fuller – raiz unitaria
```

```
[HppB24a, PValueppB24a, TStatppB24a, CValueppB24a] = ppTSTest(returns2, [0:4], 0.05); % Teste de Philips e Perron – raiz unitaria
```

```
[hdfB24a, pValuedfB24a, tStatdfB24a, cValuedfB24a] = dfTSTest(returns2, [0:4], [0.05], 't'); % Teste de Dickey Fuller – raiz unitaria
```

```
[CorrA24a pValuecorrA24a StatcorrA24a CriticalValuecorrA24a] =...
```

```
lbqtest(returns1-mean(returns1),[20]',0.05); %presença de autocorrelação serial h=0 não há correlação significativa
```

```

[CorrA24a pValuecorrA24a StatcorrA24a CriticalValuecorrA24a];

[HA24a, pValueA24a, StatA24a, CriticalValueA24a] = ...

archtest(returns1-mean(returns1),[20]',0.05); %presença de efeito arch h=0 não existe efeito arch

[HA24a, pValueA24a, StatA24a, CriticalValueA24a];

m24a = garchset('Distribution' , 'T' , 'R', 2, 'M', 4, ...

'Display','off');

[m24a, errors24a, LLF24a, residuals24a, sigmas24a] = garchfit(m24a, returns1);

garchdisp(m24a, errors24a) % Display the estimation results

[P24a, DW24a] = dwtest(residuals24a,returns1); % durbin Watson
mAA24a = garchcount(m24a); % conta parâmetros
[AIC24a, BIC24a] = aicbic(LLF24a, mAA24a,T); % Critérios de akaike e bayes
[CorrB24a pValuecorrB24a StatcorrB24a CriticalValuecorrB24a] =...

lbqctest((residuals24a./ sigmas24a),[20]',0.05); % Presença de correlação serial nos resíduos do
modelo estimado

[CorrB24a pValuecorrB24a StatcorrB24a CriticalValuecorrB24a];

[HB24a, pValueB24a, StatB24a, CriticalValueB24a] = ...

archtest((residuals24a./ sigmas24a),[20]',0.05); %presença de efeito arch nos resíduos

[HB24a, pValueB24a, StatB24a, CriticalValueB24a];

standardizedResiduals24a = residuals24a ./ sigmas24a; % padronização de resíduos
rand('state', 0) % iniciar números aleatórios para reprodução em massa – critério
modificado do algoritmo de Marsaglia

nTrials = T2; % número de tentativas independentes e aleatórias
horizon = 10; % horizonte de previsão da variância
bootstrappedResiduals24a = standardizedResiduals24a (unidrnd(T2, horizon, nTrials));
preResidual24a = residuals24a ((T2-4):end); % pré amostra modelo de resíduos
preSigma24a = sigmas24a ((T2-4):end); % pré amostra de volatilidades preReturn24a
= returns1((T2-4):end); % retornos pré-definidos
[dummy24a, dummy24a, ...

previsao10dias24a] = garchsim(m24a, horizon, nTrials, ...
bootstrappedResiduals24a , [], returns2, ...
preResidual24a, preSigma24a, preReturn24a); % matriz de previsão condicionada a primeira
série

previsao24a = previsao10dias24a'; % previsão 10 passos a frente
prevA24a = previsao24a (:,1); % séries individuais de previsão
prevB24a = previsao24a (:,2);

```

```

prevC24a = previsao24a (:,3);
prevD24a = previsao24a (:,4);
prevE24a = previsao24a (:,5);
prevF24a = previsao24a (:,6);
prevG24a = previsao24a (:,7);
prevH24a = previsao24a (:,8);
prevI24a = previsao24a (:,9);
prevJ24a = previsao24a (:,10);
mseA24a = mse (returns2-prevA24a); % Cálculo do erro mínimo quadrado
mseB24a = mse (returns2-prevB24a);
mseC24a = mse (returns2-prevC24a);
mseD24a = mse (returns2-prevD24a);
mseE24a = mse (returns2-prevE24a);
mseF24a = mse (returns2-prevF24a);
mseG24a = mse (returns2-prevG24a);
mseH24a = mse (returns2-prevH24a);
mseI24a = mse (returns2-prevI24a);
mseJ24a = mse (returns2-prevJ24a);
maeA24a = mae (returns2-prevA24a); % Cálculo do erro absoluto médio
maeB24a = mae (returns2-prevB24a);
maeC24a = mae (returns2-prevC24a);
maeD24a = mae (returns2-prevD24a);
maeE24a = mae (returns2-prevE24a);
maeF24a = mae (returns2-prevF24a);
maeG24a = mae (returns2-prevG24a);
maeH24a = mae (returns2-prevH24a);
maeI24a = mae (returns2-prevI24a);
maeJ24a = mae (returns2-prevJ24a);

% ARMA 31
[Hpp31a, PValuepp31a, TStatpp31a, CValuepp31a] = ppTSTest(teste, [0:4], 0.05); % Teste de
Philips e Perron – raiz unitaria

[hdf31a, pValuedf31a, tStatdf31a, cValuedf31a] = dfTSTest(teste, [0:4], [0.05], 't'); % Teste de
Dickey Fuller – raiz unitaria

[HppA31a, PValueppA31a, TStatppA31a, CValueppA31a] = ppTSTest(returns1, [0:4], 0.05); %
Teste de Philips e Perron – raiz unitaria

[hdfA31a, pValuedfA31a, tStatdfA31a, cValuedfA31a] = dfTSTest(returns1, [0:4], [0.05], 't'); %
Teste de Dickey Fuller – raiz unitaria

[HppB31a, PValueppB31a, TStatppB31a, CValueppB31a] = ppTSTest(returns2, [0:4], 0.05); %
Teste de Philips e Perron – raiz unitaria

[hdfB31a, pValuedfB31a, tStatdfB31a, cValuedfB31a] = dfTSTest(returns2, [0:4], [0.05], 't'); %
Teste de Dickey Fuller – raiz unitaria

[CorrA31a pValuecorrA31a StatcorrA31a CriticalValuecorrA31a] =...

lbqtest(returns1-mean(returns1),[20]',0.05); %presença de autocorrelação serial h=0 não há

```

correlação significativa

```
[CorrA31a pValuecorrA31a StatcorrA31a CriticalValuecorrA31a];
```

```
[HA31a, pValueA31a, StatA31a, CriticalValueA31a] = ...
```

```
archtest(returns1-mean(returns1),[20]',0.05); %presença de efeito arch h=0 não existe efeito arch
```

```
[HA31a, pValueA31a, StatA31a, CriticalValueA31a];
```

```
m31a = garchset('Distribution', 'T', 'R', 3, 'M', 1, ...
```

```
'Display','off');
```

```
[m31a, errors31a, LLF31a, residuals31a, sigmas31a] = garchfit(m31a, returns1);
```

```
garchdisp(m31a, errors31a) % Display the estimation results
```

```
[P31a, DW31a] = dwtest(residuals31a,returns1); % durbin Watson
```

```
mAA31a = garchcount(m31a); % conta parâmetros
```

```
[AIC31a, BIC31a] = aicbic(LLF31a, mAA31a,T); % Critérios de akaike e bayes
```

```
[CorrB31a pValuecorrB31a StatcorrB31a CriticalValuecorrB31a] =...
```

```
lbqctest((residuals31a./ sigmas31a),[20]',0.05); % Presença de correlação serial nos resíduos do modelo estimado
```

```
[CorrB31a pValuecorrB31a StatcorrB31a CriticalValuecorrB31a];
```

```
[HB31a, pValueB31a, StatB31a, CriticalValueB31a] = ...
```

```
archtest((residuals31a./ sigmas31a),[20]',0.05); %presença de efeito arch nos resíduos
```

```
[HB31a, pValueB31a, StatB31a, CriticalValueB31a];
```

```
standardizedResiduals31a = residuals31a ./ sigmas31a; % padronização de resíduos  
rand('state', 0) % iniciar números aleatórios para reprodução em massa – critério  
modificado do algoritmo de Marsaglia
```

```
nTrials = T2; % número de tentativas independentes e aleatórias
```

```
horizon = 10; % horizonte de previsão da variância
```

```
bootstrappedResiduals31a = standardizedResiduals31a (unidrnd(T2, horizon, nTrials));
```

```
preResidual31a = residuals31a ((T2-4):end); % pré amostra modelo de resíduos
```

```
preSigma31a = sigmas31a ((T2-4):end); % pré amostra de volatilidades preReturn31a  
= returns1((T2-4):end); % retornos pré-definidos
```

```
[dummy31a, dummy31a, ...
```

```
previsao10dias31a] = garchsim(m31a, horizon, nTrials, ...
```

```
bootstrappedResiduals31a, [], returns2, ...
```

```
preResidual31a, preSigma31a, preReturn31a); % matriz de previsão condicionada a primeira  
série
```

```

previsao31a = previsao10dias31a'; % previsão 10 passos a frente
prevA31a = previsao31a (:,1); % séries individuais de previsão
prevB31a = previsao31a (:,2);
prevC31a = previsao31a (:,3);
prevD31a = previsao31a (:,4);
prevE31a = previsao31a (:,5);
prevF31a = previsao31a (:,6);
prevG31a = previsao31a (:,7);
prevH31a = previsao31a (:,8);
prevI31a = previsao31a (:,9);
prevJ31a = previsao31a (:,10);
mseA31a = mse (returns2-prevA31a); % Cálculo do erro mínimo quadrado
mseB31a = mse (returns2-prevB31a);
mseC31a = mse (returns2-prevC31a);
mseD31a = mse (returns2-prevD31a);
mseE31a= mse (returns2-prevE31a);
mseF31a = mse (returns2-prevF31a);
mseG31a = mse (returns2-prevG31a);
mseH31a = mse (returns2-prevH31a);
mseI31a = mse (returns2-prevI31a);
mseJ31a = mse (returns2-prevJ31a);
maeA31a = mae (returns2-prevA31a); % Cálculo do erro absoluto médio
maeB31a = mae (returns2-prevB31a);
maeC31a = mae (returns2-prevC31a);
maeD31a = mae (returns2-prevD31a);
maeE31a = mae (returns2-prevE31a);
maeF31a = mae (returns2-prevF31a);
maeG31a = mae (returns2-prevG31a);
maeH31a = mae (returns2-prevH31a);
maeI31a = mae (returns2-prevI31a);
maeJ31a = mae (returns2-prevJ31a);

% ARMA 32
[Hpp32a, PValuepp32a, TStatpp32a, CValuepp32a] = ppTSTest(teste, [0:4], 0.05); % Teste de
Philips e Perron – raiz unitaria

[hdf32a, pValuedf32a, tStatdf32a, cValuedf32a] = dfTSTest(teste, [0:4], [0.05], 't'); % Teste de
Dickey Fuller – raiz unitaria

[HppA32a, PValueppA32a, TStatppA32a, CValueppA32a] = ppTSTest(returns1, [0:4], 0.05); %
Teste de Philips e Perron – raiz unitaria

[hdfA32a, pValuedfA32a, tStatdfA32a, cValuedfA32a] = dfTSTest(returns1, [0:4], [0.05], 't'); %
Teste de Dickey Fuller – raiz unitaria

[HppB32a, PValueppB32a, TStatppB32a, CValueppB32a] = ppTSTest(returns2, [0:4], 0.05); %
Teste de Philips e Perron – raiz unitaria

[hdfB32a, pValuedfB32a, tStatdfB32a, cValuedfB32a] = dfTSTest(returns2, [0:4], [0.05], 't'); %

```

Teste de Dickey Fuller – raiz unitaria

```
[CorrA32a pValuecorrA32a StatcorrA32a CriticalValuecorrA32a] =...
```

```
lbqtest(returns1-mean(returns1),[20]',0.05); %presença de autocorrelação serial h=0 não há correlação significativa
```

```
[CorrA32a pValuecorrA32a StatcorrA32a CriticalValuecorrA32a];
```

```
[HA32a, pValueA32a, StatA32a, CriticalValueA32a] = ...
```

```
archtest(returns1-mean(returns1),[20]',0.05); %presença de efeito arch h=0 não existe efeito arch
```

```
[HA32a, pValueA32a, StatA32a, CriticalValueA32a];
```

```
m32a = garchset('Distribution', 'T', 'R', 3, 'M', 2, ...
```

```
'Display','off');
```

```
[m32a, errors32a, LLF32a, residuals32a, sigmas32a] = garchfit(m32a, returns1);
```

```
garchdisp(m32a, errors32a) % Display the estimation results
```

```
[P32a, DW32a] = dwtest(residuals32a,returns1); % durbin Watson
```

```
mAA32a = garchcount(m32a); % conta parâmetros
```

```
[AIC32a, BIC32a] = aicbic(LLF32a, mAA32a,T); % Critérios de akaike e bayes
```

```
[CorrB32a pValuecorrB32a StatcorrB32a CriticalValuecorrB32a] =...
```

```
lbqtest((residuals32a./ sigmas32a),[20]',0.05); % Presença de correlação serial nos resíduos do modelo estimado
```

```
[CorrB32a pValuecorrB32a StatcorrB32a CriticalValuecorrB32a];
```

```
[HB32a, pValueB32a, StatB32a, CriticalValueB32a] = ...
```

```
archtest((residuals32a./ sigmas32a),[20]',0.05); %presença de efeito arch nos resíduos
```

```
[HB32a, pValueB32a, StatB32a, CriticalValueB32a];
```

```
standardizedResiduals32a = residuals32a ./ sigmas32a; % padronização de resíduos  
rand('state', 0) % iniciar números aleatórios para reprodução em massa – critério modificado do algoritmo de Marsaglia
```

```
nTrials = T2; % número de tentativas independentes e aleatórias
```

```
horizon = 10; % horizonte de previsão da variância
```

```
bootstrappedResiduals32a = standardizedResiduals32a (unidrnd(T2, horizon, nTrials));
```

```
preResidual32a = residuals32a ((T2-4):end); % pré amostra modelo de resíduos
```

```
preSigma32a = sigmas32a ((T2-4):end); % pré amostra de volatilidades preReturn32a
```

```
= returns1((T2-4):end); % retornos pré-definidos
```

```
[dummy32a, dummy32a, ...
```

```
previsao10dias32a] = garchsim(m32a, horizon, nTrials, ...  
bootstrappedResiduals32a , [], returns2, ...  
preResidual32a, preSigma32a, preReturn32a); % matriz de previsão condicionada a primeira  
série
```

```
previsao32a = previsao10dias32a'; % previsão 10 passos a frente
```

```
prevA32a = previsao32a (:,1); % séries individuais de previsão  
prevB32a = previsao32a (:,2);  
prevC32a = previsao32a (:,3);  
prevD32a = previsao32a (:,4);  
prevE32a = previsao32a (:,5);  
prevF32a = previsao32a (:,6);  
prevG32a = previsao32a (:,7);  
prevH32a = previsao32a (:,8);  
prevI32a = previsao32a (:,9);  
prevJ32a = previsao32a (:,10);  
mseA32a = mse (returns2-prevA32a); % Cálculo do erro mínimo quadrado  
mseB32a = mse (returns2-prevB32a);  
mseC32a = mse (returns2-prevC32a);  
mseD32a = mse (returns2-prevD32a);  
mseE32a= mse (returns2-prevE32a);  
mseF32a = mse (returns2-prevF32a);  
mseG32a = mse (returns2-prevG32a);  
mseH32a = mse (returns2-prevH32a);  
mseI32a = mse (returns2-prevI32a);  
mseJ32a = mse (returns2-prevJ32a);  
maeA32a = mae (returns2-prevA32a); % Cálculo do erro absoluto médio  
maeB32a = mae (returns2-prevB32a);  
maeC32a = mae (returns2-prevC32a);  
maeD32a = mae (returns2-prevD32a);  
maeE32a = mae (returns2-prevE32a);  
maeF32a = mae (returns2-prevF32a);  
maeG32a = mae (returns2-prevG32a);  
maeH32a = mae (returns2-prevH32a);  
maeI32a = mae (returns2-prevI32a);  
maeJ32a = mae (returns2-prevJ32a);
```

```
% ARMA 33
```

```
[Hpp33a, PValuepp33a, TStatpp33a, CValuepp33a] = ppTSTest(teste, [0:4], 0.05); % Teste de  
Philips e Perron – raiz unitaria
```

```
[hdf33a, pValuedf33a, tStatdf33a, cValuedf33a] = dfTSTest(teste, [0:4], [0.05], 't'); % Teste de  
Dickey Fuller – raiz unitaria
```

```
[HppA33a, PValueppA33a, TStatppA33a, CValueppA33a] = ppTSTest(returns1, [0:4], 0.05); %  
Teste de Philips e Perron – raiz unitaria
```

```
[hdfA33a, pValuedfA33a, tStatdfA33a, cValuedfA33a] = dfTSTest(returns1, [0:4], [0.05], 't'); %  
Teste de Dickey Fuller – raiz unitaria
```

```

[HppB33a, PValueppB33a, TStatppB33a, CValueppB33a] = ppTSTest(returns2, [0:4], 0.05); %
Teste de Philips e Perron – raiz unitaria

[hdfB33a, pValuedfB33a, tStatdfB33a, cValuedfB33a] = dfTSTest(returns2, [0:4], [0.05], 't'); %
Teste de Dickey Fuller – raiz unitaria

[CorrA33a pValuecorrA33a StatcorrA33a CriticalValuecorrA33a] =...

lbqtest(returns1-mean(returns1),[20]',0.05); %presença de autocorrelação serial h=0 não há
correlação significativa

[CorrA33a pValuecorrA33a StatcorrA33a CriticalValuecorrA33a];

[HA33a, pValueA33a, StatA33a, CriticalValueA33a] = ...

archtest(returns1-mean(returns1),[20]',0.05); %presença de efeito arch h=0 não existe efeito arch

[HA33a, pValueA33a, StatA33a, CriticalValueA33a];

m33a = garchset('Distribution', 'T', 'R', 3, 'M', 3, ...
'Display','off');

[m33a, errors33a, LLF33a, residuals33a, sigmas33a] = garchfit(m33a, returns1);

garchdisp(m33a, errors33a) % Display the estimation results
[P33a, DW33a] = dwtest(residuals33a,returns1); % durbin Watson
mAA33a = garchcount(m33a); % conta parâmetros
[AIC33a, BIC33a] = aicbic(LLF33a, mAA33a,T); % Critérios de akaike e bayes

[CorrB33a pValuecorrB33a StatcorrB33a CriticalValuecorrB33a] =...

lbqtest((residuals33a./ sigmas33a),[20]',0.05); % Presença de correlação serial nos resíduos do
modelo estimado

[CorrB33a pValuecorrB33a StatcorrB33a CriticalValuecorrB33a];

[HB33a, pValueB33a, StatB33a, CriticalValueB33a] = ...

archtest((residuals33a./ sigmas33a),[20]',0.05); %presença de efeito arch nos resíduos

[HB33a, pValueB33a, StatB33a, CriticalValueB33a];

standardizedResiduals33a = residuals33a ./ sigmas33a; % padronização de resíduos
rand('state', 0) % iniciar números aleatórios para reprodução em massa – critério
modificado do algoritmo de Marsaglia

nTrials = T2; % número de tentativas independentes e aleatórias
horizon = 10; % horizonte de previsão da variância
bootstrappedResiduals33a = standardizedResiduals33a (unidrnd(T2, horizon, nTrials));
preResidual33a = residuals33a ((T2-4):end); % pré amostra modelo de resíduos
preSigma33a = sigmas33a ((T2-4):end); % pré amostra de volatilidades preReturn33a

```



```

= returns1((T2-4):end); % retornos pré-definidos
[dummy33a, dummy33a, ...

previsao10dias33a] = garchsim(m33a, horizon, nTrials, ...
bootstrappedResiduals33a, [], returns2, ...
preResidual33a, preSigma33a, preReturn33a); % matriz de previsão condicionada a primeira
série

previsao33a = previsao10dias33a'; % previsão 10 passos a frente
prevA33a = previsao33a (:,1); % séries individuais de previsão
prevB33a = previsao33a (:,2);
prevC33a = previsao33a (:,3);
prevD33a = previsao33a (:,4);
prevE33a = previsao33a (:,5);
prevF33a = previsao33a (:,6);
prevG33a = previsao33a (:,7);
prevH33a = previsao33a (:,8);
prevI33a = previsao33a (:,9);
prevJ33a = previsao33a (:,10);
mseA33a = mse (returns2-prevA33a); % Cálculo do erro mínimo quadrado
mseB33a = mse (returns2-prevB33a);
mseC33a = mse (returns2-prevC33a);
mseD33a = mse (returns2-prevD33a);
mseE33a= mse (returns2-prevE33a);
mseF33a = mse (returns2-prevF33a);
mseG33a = mse (returns2-prevG33a);
mseH33a = mse (returns2-prevH33a);
mseI33a = mse (returns2-prevI33a);
mseJ33a = mse (returns2-prevJ33a);
maeA33a = mae (returns2-prevA33a); % Cálculo do erro absoluto médio
maeB33a = mae (returns2-prevB33a);
maeC33a = mae (returns2-prevC33a);
maeD33a = mae (returns2-prevD33a);
maeE33a = mae (returns2-prevE33a);
maeF33a = mae (returns2-prevF33a);
maeG33a = mae (returns2-prevG33a);
maeH33a = mae (returns2-prevH33a);
maeI33a = mae (returns2-prevI33a);
maeJ33a = mae (returns2-prevJ33a);

% ARMA 34

[Hpp34a, PValuepp34a, TStatpp34a, CValuepp34a] = ppTSTest(teste, [0:4], 0.05); % Teste de
Philips e Perron – raiz unitaria

[hdf34a, pValuedf34a, tStatdf34a, cValuedf34a] = dfTSTest(teste, [0:4], [0.05], 't'); % Teste de
Dickey Fuller – raiz unitaria

[HppA34a, PValueppA34a, TStatppA34a, CValueppA34a] = ppTSTest(returns1, [0:4], 0.05); %
Teste de Philips e Perron – raiz unitaria

```

```
[hdfA34a, pValuedfA34a, tStatdfA34a, cValuedfA34a] = dfTSTest(returns1, [0:4], [0.05], 't'); %  
Teste de Dickey Fuller – raiz unitaria
```

```
[HppB34a, PValueppB34a, TStatppB34a, CValueppB34a] = ppTSTest(returns2, [0:4], 0.05); %  
Teste de Philips e Perron – raiz unitaria
```

```
[hdfB34a, pValuedfB34a, tStatdfB34a, cValuedfB34a] = dfTSTest(returns2, [0:4], [0.05], 't'); %  
Teste de Dickey Fuller – raiz unitaria
```

```
[CorrA34a pValuecorrA34a StatcorrA34a CriticalValuecorrA34a] =...
```

```
lbqtest(returns1-mean(returns1),[20]',0.05); %presença de autocorrelação serial h=0 não há  
correlação significativa
```

```
[CorrA34a pValuecorrA34a StatcorrA34a CriticalValuecorrA34a];
```

```
[HA34a, pValueA34a, StatA34a, CriticalValueA34a] = ...
```

```
archtest(returns1-mean(returns1),[20]',0.05); %presença de efeito arch h=0 não existe efeito arch
```

```
[HA34a, pValueA34a, StatA34a, CriticalValueA34a];
```

```
m34a = garchset('Distribution', 'T', 'R', 3, 'M', 4, ...
```

```
'Display','off');
```

```
[m34a, errors34a, LLF34a, residuals34a, sigmas34a] = garchfit(m34a, returns1);
```

```
garchdisp(m34a, errors34a) % Display the estimation results [P34a,  
DW34a] = dwtest(residuals34a,returns1); % durbin Watson mAA34a =  
garchcount(m34a); % conta parâmetros
```

```
[AIC34a, BIC34a] = aicbic(LLF34a, mAA34a,T); % Critérios de akaike e bayes
```

```
[CorrB34a pValuecorrB34a StatcorrB34a CriticalValuecorrB34a] =...
```

```
lbqtest((residuals34a./ sigmas34a),[20]',0.05); % Presença de correlação serial nos resíduos do  
modelo estimado
```

```
[CorrB34a pValuecorrB34a StatcorrB34a CriticalValuecorrB34a];
```

```
[HB34a, pValueB34a, StatB34a, CriticalValueB34a] = ...
```

```
archtest((residuals34a./ sigmas34a),[20]',0.05); %presença de efeito arch nos resíduos
```

```
[HB34a, pValueB34a, StatB34a, CriticalValueB34a];
```

```
standardizedResiduals34a = residuals34a ./ sigmas34a; % padronização de resíduos  
rand('state', 0) % iniciar números aleatórios para reprodução em massa – critério  
modificado do algoritmo de Marsaglia
```

```
nTrials = T2; % número de tentativas independentes e aleatórias
```

```
horizon = 10; % horizonte de previsão da variância
```

```
bootstrappedResiduals34a = standardizedResiduals34a (unidrnd(T2, horizon, nTrials));
```

```
preResidual34a = residuals34a ((T2-4):end); % pré amostra modelo de resíduos
preSigma34a = sigmas34a ((T2-4):end); % pré amostra de volatilidades preReturn34a
= returns1((T2-4):end); % retornos pré-definidos
[dummy34a, dummy34a, ...
```

```
previsao10dias34a] = garchsim(m34a, horizon, nTrials, ...
bootstrappedResiduals34a, [], returns2, ...
preResidual34a, preSigma34a, preReturn34a); % matriz de previsão condicionada a primeira
série
```

```
previsao34a = previsao10dias34a'; % previsão 10 passos a frente
prevA34a = previsao34a (:,1); % séries individuais de previsão
prevB34a = previsao34a (:,2);
prevC34a = previsao34a (:,3);
prevD34a = previsao34a (:,4);
prevE34a = previsao34a (:,5);
prevF34a = previsao34a (:,6);
prevG34a = previsao34a (:,7);
prevH34a = previsao34a (:,8);
prevI34a = previsao34a (:,9);
prevJ34a = previsao34a (:,10);
mseA34a = mse (returns2-prevA34a); % Cálculo do erro mínimo quadrado
mseB34a = mse (returns2-prevB34a);
mseC34a = mse (returns2-prevC34a);
mseD34a = mse (returns2-prevD34a);
mseE34a = mse (returns2-prevE34a);
mseF34a = mse (returns2-prevF34a);
mseG34a = mse (returns2-prevG34a);
mseH34a = mse (returns2-prevH34a);
mseI34a = mse (returns2-prevI34a);
mseJ34a = mse (returns2-prevJ34a);
maeA34a = mae (returns2-prevA34a); % Cálculo do erro absoluto médio
maeB34a = mae (returns2-prevB34a);
maeC34a = mae (returns2-prevC34a);
maeD34a = mae (returns2-prevD34a);
maeE34a = mae (returns2-prevE34a);
maeF34a = mae (returns2-prevF34a);
maeG34a = mae (returns2-prevG34a);
maeH34a = mae (returns2-prevH34a);
maeI34a = mae (returns2-prevI34a);
maeJ34a = mae (returns2-prevJ34a);
```

```
% ARMA 41
```

```
[Hpp41a, PValuepp41a, TStatpp41a, CValuepp41a] = ppTSTest(teste, [0:4], 0.05); % Teste de
Philips e Perron – raiz unitaria
[hdf41a, pValuedf41a, tStatdf41a, cValuedf41a] = dfTSTest(teste, [0:4], [0.05], 't'); % Teste de
Dickey Fuller – raiz unitaria
```

```
[HppA41a, PValueppA41a, TStatppA41a, CValueppA41a] = ppTSTest(returns1, [0:4], 0.05); %
Teste de Philips e Perron – raiz unitaria
```

```
[hdfA41a, pValuedfA41a, tStatdfA41a, cValuedfA41a] = dfTSTest(returns1, [0:4], [0.05], 't'); %  
Teste de Dickey Fuller – raiz unitaria
```

```
[HppB41a, PValueppB41a, TStatppB41a, CValueppB41a] = ppTSTest(returns2, [0:4], 0.05); %  
Teste de Philips e Perron – raiz unitaria
```

```
[hdfB41a, pValuedfB41a, tStatdfB41a, cValuedfB41a] = dfTSTest(returns2, [0:4], [0.05], 't'); %  
Teste de Dickey Fuller – raiz unitaria
```

```
[CorrA41a pValuecorrA41a StatcorrA41a CriticalValuecorrA41a] =...
```

```
lbqtest(returns1-mean(returns1),[20]',0.05); %presença de autocorrelação serial h=0 não há  
correlação significativa
```

```
[CorrA41a pValuecorrA41a StatcorrA41a CriticalValuecorrA41a];
```

```
[HA41a, pValueA41a, StatA41a, CriticalValueA41a] = ...
```

```
archtest(returns1-mean(returns1),[20]',0.05); %presença de efeito arch h=0 não existe efeito arch
```

```
[HA41a, pValueA41a, StatA41a, CriticalValueA41a];
```

```
m41a = garchset('Distribution', 'T', 'R', 4, 'M', 1, ...
```

```
'Display','off');
```

```
[m41a, errors41a, LLF41a, residuals41a, sigmas41a] = garchfit(m41a, returns1);
```

```
garchdisp(m41a, errors41a) % Display the estimation results
```

```
[P41a, DW41a] = dwtest(residuals41a,returns1); % durbin Watson
```

```
mAA41a = garchcount(m41a); % conta parâmetros
```

```
[AIC41a, BIC41a] = aicbic(LLF41a, mAA41a,T); % Critérios de akaike e bayes
```

```
[CorrB41a pValuecorrB41a StatcorrB41a CriticalValuecorrB41a] =...
```

```
lbqtest((residuals41a./ sigmas41a),[20]',0.05); % Presença de correlação serial nos resíduos do  
modelo estimado
```

```
[CorrB41a pValuecorrB41a StatcorrB41a CriticalValuecorrB41a];
```

```
[HB41a, pValueB41a, StatB41a, CriticalValueB41a] = ...
```

```
archtest((residuals41a./ sigmas41a),[20]',0.05); %presença de efeito arch nos resíduos
```

```
[HB41a, pValueB41a, StatB41a, CriticalValueB41a];
```

```
standardizedResiduals41a = residuals41a ./ sigmas41a; % padronização de resíduos  
rand('state', 0) % iniciar números aleatórios para reprodução em massa – critério  
modificado do algoritmo de Marsaglia
```

```
nTrials = T2; % número de tentativas independentes e aleatórias
```

```
horizon = 10; % horizonte de previsão da variância
```

```
bootstrappedResiduals41a = standardizedResiduals41a (unidrnd(T2, horizon, nTrials));
```

```

preResidual41a = residuals41a ((T2-4):end); % pré amostra modelo de resíduos
preSigma41a = sigmas41a ((T2-4):end); % pré amostra de volatilidades
preReturn41a = returns1((T2-4):end); % retornos pré-definidos
[dummy41a, dummy41a, ...

previsao10dias41a] = garchsim(m41a, horizon, nTrials, ...
bootstrappedResiduals41a , [], returns2, ...
preResidual41a, preSigma41a, preReturn41a); % matriz de previsão condicionada a primeira
série

previsao41a = previsao10dias41a'; % previsão 10 passos a frente

prevA41a = previsao41a (:,1); % séries individuais de previsão
prevB41a = previsao41a (:,2);
prevC41a = previsao41a (:,3);
prevD41a = previsao41a (:,4);
prevE41a = previsao41a (:,5);
prevF41a = previsao41a (:,6);
prevG41a = previsao41a (:,7);
prevH41a = previsao41a (:,8);
prevI41a = previsao41a (:,9);
prevJ41a = previsao41a (:,10);
mseA41a = mse (returns2-prevA41a); % Cálculo do erro mínimo quadrado
mseB41a = mse (returns2-prevB41a);
mseC41a = mse (returns2-prevC41a);
mseD41a = mse (returns2-prevD41a);
mseE41a= mse (returns2-prevE41a);
mseF41a = mse (returns2-prevF41a);
mseG41a = mse (returns2-prevG41a);
mseH41a = mse (returns2-prevH41a);
mseI41a = mse (returns2-prevI41a);
mseJ41a = mse (returns2-prevJ41a);
maeA41a = mae (returns2-prevA41a); % Cálculo do erro absoluto médio
maeB41a = mae (returns2-prevB41a);
maeC41a = mae (returns2-prevC41a);
maeD41a = mae (returns2-prevD41a);
maeE41a = mae (returns2-prevE41a);
maeF41a = mae (returns2-prevF41a);
maeG41a = mae (returns2-prevG41a);
maeH41a = mae (returns2-prevH41a);
maeI41a = mae (returns2-prevI41a);
maeJ41a = mae (returns2-prevJ41a);

% ARMA 42

[Hpp42a, PValuepp42a, TStatpp42a, CValuepp42a] = ppTSTest(teste, [0:4], 0.05); % Teste de
Philips e Perron – raiz unitaria
[hdf42a, pValuedf42a, tStatdf42a, cValuedf42a] = dfTSTest(teste, [0:4], [0.05], 't'); % Teste de
Dickey Fuller – raiz unitaria

```

```

[HpA42a, PValueppA42a, TStatppA42a, CValueppA42a] = ppTSTest(returns1, [0:4], 0.05); %
Teste de Philips e Perron – raiz unitaria

[hdfA42a, pValuedfA42a, tStatdfA42a, cValuedfA42a] = dfTSTest(returns1, [0:4], [0.05], 't'); %
Teste de Dickey Fuller – raiz unitaria

[HpB42a, PValueppB42a, TStatppB42a, CValueppB42a] = ppTSTest(returns2, [0:4], 0.05); %
Teste de Philips e Perron – raiz unitaria

[hdfB42a, pValuedfB42a, tStatdfB42a, cValuedfB42a] = dfTSTest(returns2, [0:4], [0.05], 't'); %
Teste de Dickey Fuller – raiz unitaria

[CorrA42a pValuecorrA42a StatcorrA42a CriticalValuecorrA42a] =...

lbqtest(returns1-mean(returns1),[20]',0.05); %presença de autocorrelação serial h=0 não há
correlação significativa

[CorrA42a pValuecorrA42a StatcorrA42a CriticalValuecorrA42a];

[HA42a, pValueA42a, StatA42a, CriticalValueA42a] = ...

archtest(returns1-mean(returns1),[20]',0.05); %presença de efeito arch h=0 não existe efeito arch

[HA42a, pValueA42a, StatA42a, CriticalValueA42a];

m42a = garchset('Distribution', 'T', 'R', 4, 'M', 2, ...
'Display','off');

[m42a, errors42a, LLF42a, residuals42a, sigmas42a] = garchfit(m42a, returns1);

garchdisp(m42a, errors42a) % Display the estimation results

[P42a, DW42a] = dwtest(residuals42a,returns1); % durbin Watson
mAA42a = garchcount(m42a); % conta parâmetros
[AIC42a, BIC42a] = aicbic(LLF42a, mAA42a,T); % Critérios de akaike e bayes

[CorrB42a pValuecorrB42a StatcorrB42a CriticalValuecorrB42a] =...
lbqtest((residuals42a./ sigmas42a),[20]',0.05); % Presença de correlação serial nos resíduos do
modelo estimado

[CorrB42a pValuecorrB42a StatcorrB42a CriticalValuecorrB42a];

[HB42a, pValueB42a, StatB42a, CriticalValueB42a] = ...

archtest((residuals42a./ sigmas42a),[20]',0.05); %presença de efeito arch nos resíduos

[HB42a, pValueB42a, StatB42a, CriticalValueB42a];
standardizedResiduals42a = residuals42a ./ sigmas42a; % padronização de resíduos
rand('state', 0) % iniciar números aleatórios para reprodução em massa – critério
modificado do algoritmo de Marsaglia

```

```

nTrials = T2; % número de tentativas independentes e aleatórias
horizon = 10; % horizonte de previsão da variância
bootstrappedResiduals42a = standardizedResiduals42a (unidrnd(T2, horizon, nTrials));
preResidual42a = residuals42a ((T2-4):end); % pré amostra modelo de resíduos
preSigma42a = sigmas42a ((T2-4):end); % pré amostra de volatilidades preReturn42a
= returns1((T2-4):end); % retornos pré-definidos
[dummy42a, dummy42a, ...

previsao10dias42a] = garchsim(m42a, horizon, nTrials, ...
bootstrappedResiduals42a, [], returns2, ...
preResidual42a, preSigma42a, preReturn42a); % matriz de previsão condicionada a primeira
série

previsao42a = previsao10dias42a'; % previsão 10 passos a frente

prevA42a = previsao42a (:,1); % séries individuais de previsão
prevB42a = previsao42a (:,2);
prevC42a = previsao42a (:,3);
prevD42a = previsao42a (:,4);
prevE42a = previsao42a (:,5);
prevF42a = previsao42a (:,6);
prevG42a = previsao42a (:,7);
prevH42a = previsao42a (:,8);
prevI42a = previsao42a (:,9);
prevJ42a = previsao42a (:,10);
mseA42a = mse (returns2-prevA42a); % Cálculo do erro mínimo quadrado
mseB42a = mse (returns2-prevB42a);
mseC42a = mse (returns2-prevC42a);
mseD42a = mse (returns2-prevD42a);
mseE42a = mse (returns2-prevE42a);
mseF42a = mse (returns2-prevF42a);
mseG42a = mse (returns2-prevG42a);
mseH42a = mse (returns2-prevH42a);
mseI42a = mse (returns2-prevI42a);
mseJ42a = mse (returns2-prevJ42a);
maeA42a = mae (returns2-prevA42a); % Cálculo do erro absoluto médio
maeB42a = mae (returns2-prevB42a);
maeC42a = mae (returns2-prevC42a);
maeD42a = mae (returns2-prevD42a);
maeE42a = mae (returns2-prevE42a);
maeF42a = mae (returns2-prevF42a);
maeG42a = mae (returns2-prevG42a);
maeH42a = mae (returns2-prevH42a);
maeI42a = mae (returns2-prevI42a);
maeJ42a = mae (returns2-prevJ42a);

% ARMA 43

[Hpp43a, PValuepp43a, TStatpp43a, CValuepp43a] = ppTSTest(teste, [0:4], 0.05); % Teste de
Philips e Perron – raiz unitaria

```

```
[hdf43a, pValuedf43a, tStatdf43a, cValuedf43a] = dfTSTest(teste, [0:4], [0.05], 't'); % Teste de Dickey Fuller – raiz unitaria
```

```
[HppA43a, PValueppA43a, TStatppA43a, CValueppA43a] = ppTSTest(returns1, [0:4], 0.05); % Teste de Philips e Perron – raiz unitaria
```

```
[hdfA43a, pValuedfA43a, tStatdfA43a, cValuedfA43a] = dfTSTest(returns1, [0:4], [0.05], 't'); % Teste de Dickey Fuller – raiz unitaria
```

```
[HppB43a, PValueppB43a, TStatppB43a, CValueppB43a] = ppTSTest(returns2, [0:4], 0.05); % Teste de Philips e Perron – raiz unitaria
```

```
[hdfB43a, pValuedfB43a, tStatdfB43a, cValuedfB43a] = dfTSTest(returns2, [0:4], [0.05], 't'); % Teste de Dickey Fuller – raiz unitaria
```

```
[CorrA43a pValuecorrA43a StatcorrA43a CriticalValuecorrA43a] =...
```

```
lbqtest(returns1-mean(returns1),[20]',0.05); %presença de autocorrelação serial h=0 não há correlação significativa
```

```
[CorrA43a pValuecorrA43a StatcorrA43a CriticalValuecorrA43a];
```

```
[HA43a, pValueA43a, StatA43a, CriticalValueA43a] = ...
```

```
archtest(returns1-mean(returns1),[20]',0.05); %presença de efeito arch h=0 não existe efeito arch
```

```
[HA43a, pValueA43a, StatA43a, CriticalValueA43a];
```

```
m43a = garchset('Distribution' , 'T' , 'R', 4, 'M', 3, ...
```

```
'Display','off');
```

```
[m43a, errors43a, LLF43a, residuals43a, sigmas43a] = garchfit(m43a, returns1);
```

```
garchdisp(m43a, errors43a) % Display the estimation results
```

```
[P43a, DW43a] = dwtest(residuals43a,returns1); % durbin Watson
```

```
mAA43a = garchcount(m43a); % conta parâmetros
```

```
[AIC43a, BIC43a] = aicbic(LLF43a, mAA43a,T); % Critérios de akaike e bayes
```

```
[CorrB43a pValuecorrB43a StatcorrB43a CriticalValuecorrB43a] =...
```

```
lbqtest((residuals43a./ sigmas43a),[20]',0.05); % Presença de correlação serial nos resíduos do modelo estimado
```

```
[CorrB43a pValuecorrB43a StatcorrB43a CriticalValuecorrB43a];
```

```
[HB43a, pValueB43a, StatB43a, CriticalValueB43a] = ...
```

```
archtest((residuals43a./ sigmas43a),[20]',0.05); %presença de efeito arch nos resíduos
```

```
[HB43a, pValueB43a, StatB43a, CriticalValueB43a];
```

```
standardizedResiduals43a = residuals43a ./ sigmas43a; % padronização de resíduos
```

```
rand('state', 0) % iniciar números aleatórios para reprodução em massa – critério
```


modificado do algoritmo de Marsaglia

```
nTrials = T2; % número de tentativas independentes e aleatórias
horizon = 10; % horizonte de previsão da variância
bootstrappedResiduals43a = standardizedResiduals43a (unidrnd(T2, horizon, nTrials));
preResidual43a = residuals43a ((T2-4):end); % pré amostra modelo de resíduos
preSigma43a = sigmas43a ((T2-4):end); % pré amostra de volatilidades preReturn43a
= returns1((T2-4):end); % retornos pré-definidos
[dummy43a, dummy43a, ...

previsao10dias43a] = garchsim(m43a, horizon, nTrials, ...
bootstrappedResiduals43a, [], returns2, ...
preResidual43a, preSigma43a, preReturn43a); % matriz de previsão condicionada a primeira
série

previsao43a = previsao10dias43a'; % previsão 10 passos a frente
prevA43a = previsao43a (:,1); % séries individuais de previsão
prevB43a = previsao43a (:,2);
prevC43a = previsao43a (:,3);
prevD43a = previsao43a (:,4);
prevE43a = previsao43a (:,5);
prevF43a = previsao43a (:,6);
prevG43a = previsao43a (:,7);
prevH43a = previsao43a (:,8);
prevI43a = previsao43a (:,9);
prevJ43a = previsao43a (:,10);
mseA43a = mse (returns2-prevA43a); % Cálculo do erro mínimo quadrado
mseB43a = mse (returns2-prevB43a);
mseC43a = mse (returns2-prevC43a);
mseD43a = mse (returns2-prevD43a);
mseE43a = mse (returns2-prevE43a);
mseF43a = mse (returns2-prevF43a);
mseG43a = mse (returns2-prevG43a);
mseH43a = mse (returns2-prevH43a);
mseI43a = mse (returns2-prevI43a);
mseJ43a = mse (returns2-prevJ43a);
maeA43a = mae (returns2-prevA43a); % Cálculo do erro absoluto médio
maeB43a = mae (returns2-prevB43a);
maeC43a = mae (returns2-prevC43a);
maeD43a = mae (returns2-prevD43a);
maeE43a = mae (returns2-prevE43a);
maeF43a = mae (returns2-prevF43a);
maeG43a = mae (returns2-prevG43a);
maeH43a = mae (returns2-prevH43a);
maeI43a = mae (returns2-prevI43a);
maeJ43a = mae (returns2-prevJ43a);

% ARMA 44
[Hpp44a, PValuepp44a, TStatpp44a, CValuepp44a] = ppTSTest(teste, [0:4], 0.05); % Teste de
Philips e Perron – raiz unitaria
```

```
[hdf44a, pValuedf44a, tStatdf44a, cValuedf44a] = dfTSTest(teste, [0:4], [0.05], 't'); % Teste de Dickey Fuller – raiz unitaria
```

```
[HppA44a, PValueppA44a, TStatppA44a, CValueppA44a] = ppTSTest(returns1, [0:4], 0.05); % Teste de Philips e Perron – raiz unitaria
```

```
[hdfA44a, pValuedfA44a, tStatdfA44a, cValuedfA44a] = dfTSTest(returns1, [0:4], [0.05], 't'); % Teste de Dickey Fuller – raiz unitaria
```

```
[HppB44a, PValueppB44a, TStatppB44a, CValueppB44a] = ppTSTest(returns2, [0:4], 0.05); % Teste de Philips e Perron – raiz unitaria
```

```
[hdfB44a, pValuedfB44a, tStatdfB44a, cValuedfB44a] = dfTSTest(returns2, [0:4], [0.05], 't'); % Teste de Dickey Fuller – raiz unitaria
```

```
[CorrA44a pValuecorrA44a StatcorrA44a CriticalValuecorrA44a] =...
```

```
lbqtest(returns1-mean(returns1),[20]',0.05); %presença de autocorrelação serial h=0 não há correlação significativa
```

```
[CorrA44a pValuecorrA44a StatcorrA44a CriticalValuecorrA44a];
```

```
[HA44a, pValueA44a, StatA44a, CriticalValueA44a] = ...
```

```
archtest(returns1-mean(returns1),[20]',0.05); %presença de efeito arch h=0 não existe efeito arch
```

```
[HA44a, pValueA44a, StatA44a, CriticalValueA44a];
```

```
m44a = garchset('Distribution', 'T', 'R', 4, 'M', 4, ...
```

```
'Display','off');
```

```
[m44a, errors44a, LLF44a, residuals44a, sigmas44a] = garchfit(m44a, returns1);
```

```
garchdisp(m44a, errors44a) % Display the estimation results
```

```
[P44a, DW44a] = dwtest(residuals44a,returns1); % durbin Watson
```

```
mAA44a = garchcount(m44a); % conta parâmetros
```

```
[AIC44a, BIC44a] = aicbic(LLF44a, mAA44a,T); % Critérios de akaike e bayes
```

```
[CorrB44a pValuecorrB44a StatcorrB44a CriticalValuecorrB44a] =...
```

```
lbqtest((residuals44a./ sigmas44a),[20]',0.05); % Presença de correlação serial nos resíduos do modelo estimado
```

```
[CorrB44a pValuecorrB44a StatcorrB44a CriticalValuecorrB44a];
```

```
[HB44a, pValueB44a, StatB44a, CriticalValueB44a] = ...
```

```
archtest((residuals44a./ sigmas44a),[20]',0.05); %presença de efeito arch nos resíduos
```

```
[HB44a, pValueB44a, StatB44a, CriticalValueB44a];
```

```
standardizedResiduals44a = residuals44a ./ sigmas44a; % padronização de resíduos  
rand('state', 0) % iniciar números aleatórios para reprodução em massa – critério  
modificado do algoritmo de Marsaglia
```

```
nTrials = T2; % número de tentativas independentes e aleatórias  
horizon = 10; % horizonte de previsão da variância  
bootstrappedResiduals44a = standardizedResiduals44a (unidrnd(T2, horizon, nTrials));  
preResidual44a = residuals44a ((T2-4):end); % pré amostra modelo de resíduos  
preSigma44a = sigmas44a ((T2-4):end); % pré amostra de volatilidades preReturn44a  
= returns1((T2-4):end); % retornos pré-definidos  
[dummy44a, dummy44a, ...
```

```
previsao10dias44a] = garchsim(m44a, horizon, nTrials, ...  
bootstrappedResiduals44a, [], returns2, ...  
preResidual44a, preSigma44a, preReturn44a); % matriz de previsão condicionada a primeira  
série
```

```
previsao44a = previsao10dias44a'; % previsão 10 passos a frente  
prevA44a = previsao44a (:,1); % séries individuais de previsão  
prevB44a = previsao44a (:,2);  
prevC44a = previsao44a (:,3);  
prevD44a = previsao44a (:,4);  
prevE44a = previsao44a (:,5);  
prevF44a = previsao44a (:,6);  
prevG44a = previsao44a (:,7);  
prevH44a = previsao44a (:,8);  
prevI44a = previsao44a (:,9);  
prevJ44a = previsao44a (:,10);  
mseA44a = mse (returns2-prevA44a); % Cálculo do erro mínimo quadrado  
mseB44a = mse (returns2-prevB44a);  
mseC44a = mse (returns2-prevC44a);  
mseD44a = mse (returns2-prevD44a);  
mseE44a = mse (returns2-prevE44a);  
mseF44a = mse (returns2-prevF44a);  
mseG44a = mse (returns2-prevG44a);  
mseH44a = mse (returns2-prevH44a);  
mseI44a = mse (returns2-prevI44a);  
mseJ44a = mse (returns2-prevJ44a);  
maeA44a = mae (returns2-prevA44a); % Cálculo do erro absoluto médio  
maeB44a = mae (returns2-prevB44a);  
maeC44a = mae (returns2-prevC44a);  
maeD44a = mae (returns2-prevD44a);  
maeE44a = mae (returns2-prevE44a);  
maeF44a = mae (returns2-prevF44a);  
maeG44a = mae (returns2-prevG44a);  
maeH44a = mae (returns2-prevH44a);  
maeI44a = mae (returns2-prevI44a);  
maeJ44a = mae (returns2-prevJ44a);
```

```
% GRÁFICOS
```

```
% BANDAS DE BOLLINGER
```

```
[Movavgv2, UpperBand2, LowerBand2] = bolling(teste, 2, 1);  
[Movavgv3, UpperBand3, LowerBand3] = bolling(teste, 3, 1);  
[Movavgv4, UpperBand4, LowerBand4] = bolling(teste, 4, 1);  
[Movavgv5, UpperBand5, LowerBand5] = bolling(teste, 5, 1);  
[Movavgv6, UpperBand6, LowerBand6] = bolling(teste, 6, 1);  
[Movavgv7, UpperBand7, LowerBand7] = bolling(teste, 7, 1);  
[Movavgv8, UpperBand8, LowerBand8] = bolling(teste, 8, 1);  
[Movavgv9, UpperBand9, LowerBand9] = bolling(teste, 9, 1);  
[Movavgv10, UpperBand10, LowerBand10] = bolling(teste, 10, 1);  
[Movavgv11, UpperBand11, LowerBand11] = bolling(teste, 11, 1);  
[Movavgv12, UpperBand12, LowerBand12] = bolling(teste, 12, 1);  
[Movavgv13, UpperBand13, LowerBand13] = bolling(teste, 13, 1);  
[Movavgv14, UpperBand14, LowerBand14] = bolling(teste, 14, 1);  
[Movavgv15, UpperBand15, LowerBand15] = bolling(teste, 15, 1);  
[Movavgv16, UpperBand16, LowerBand16] = bolling(teste, 16, 1);  
[Movavgv17, UpperBand17, LowerBand17] = bolling(teste, 17, 1);  
[Movavgv18, UpperBand18, LowerBand18] = bolling(teste, 18, 1);  
[Movavgv19, UpperBand19, LowerBand19] = bolling(teste, 19, 1);  
[Movavgv20, UpperBand20, LowerBand20] = bolling(teste, 20, 1);
```

```
% média móvel [Short, Long] = movavg(Asset, Lead, lag, Alpha)
```

```
[curta1, longa20] = movavg(teste, 2, 20, 0);  
[curta2, longa19] = movavg(teste, 3, 19, 0);  
[curta3, longa18] = movavg(teste, 4, 18, 0);  
[curta4, longa17] = movavg(teste, 5, 17, 0);  
[curta5, longa16] = movavg(teste, 6, 16, 0);  
[curta6, longa15] = movavg(teste, 7, 15, 0);  
[curta7, longa14] = movavg(teste, 8, 14, 0);  
[curta8, longa13] = movavg(teste, 9, 13, 0);  
[curta9, longa12] = movavg(teste, 10, 12, 0);  
[curta10, longa11] = movavg(teste, 11, 11, 0);  
[curta21, longa22] = movavg(teste, 21, 22, 0);  
[curta23, longa24] = movavg(teste, 23, 24, 0);  
[curta25, longa26] = movavg(teste, 25, 26, 0);  
[curta27, longa28] = movavg(teste, 27, 28, 0);  
[curta29, longa30] = movavg(teste, 29, 30, 0);  
[curta31, longa32] = movavg(teste, 31, 32, 0);
```

```
returns = price2ret (teste); T =  
size(returns,1);
```

```
m11graf = garchset('Distribution', 'T', 'P', 1, 'Q', 1, ...
```

```
'VarianceModel', 'GARCH', 'Display','off');
```

```
[m11graf, errors11graf, LLF11graf, residuals11graf, sigmas11graf] = garchfit(m11graf, returns);
```

```

garchdisp(m11graf, errors11graf) % Display the estimation results

standardizedResiduals11graf = residuals11graf ./ sigmas11graf; % padronização de resíduos
rand('state', 0) % iniciar números aleatórios para reprodução em massa – critério
modificado do algoritmo de Marsaglia

nTrials = T; % número de tentativas independentes e aleatórias
horizon = 2; % horizonte de previsão da variância
bootstrappedResiduals11graf = standardizedResiduals11graf(unidrnd(T, horizon, nTrials));
preResidual11graf = residuals11graf((T-4):end); % pré amostra modelo de resíduos
preSigma11graf = sigmas11graf((T-4):end); % pré amostra de volatilidades
preReturn11graf = returns((T-4):end); % retornos pré-definidos
[dummy11graf, dummy11graf, ...

seriesimulada11graf] = garchsim(m11graf, horizon, nTrials, ...
bootstrappedResiduals11graf, [], returns, ...

preResidual11graf, preSigma11graf, preReturn11graf); % matriz de previsão condicionada a
primeira série

seriesimulada11graf = seriesimulada11graf'; % previsão 10 passos a frente
seriesimulada11graf11 = seriesimulada11graf (:,1); % série recriada para teste de bootstrap

seriesimulada11graf1= ret2price(seriesimulada11graf11,teste(1,1));

% GRÁFICOS SIMULADOS

% BANDAS DE BOLLINGER SIMULADAS

[Movavgv2graf, UpperBand2graf, LowerBand2graf] = bolling(seriesimulada11graf1, 2, 1);
[Movavgv3graf, UpperBand3graf, LowerBand3graf] = bolling(seriesimulada11graf1, 3, 1);
[Movavgv4graf, UpperBand4graf, LowerBand4graf] = bolling(seriesimulada11graf1, 4, 1);
[Movavgv5graf, UpperBand5graf, LowerBand5graf] = bolling(seriesimulada11graf1, 5, 1);
[Movavgv6graf, UpperBand6graf, LowerBand6graf] = bolling(seriesimulada11graf1, 6, 1);
[Movavgv7graf, UpperBand7graf, LowerBand7graf] = bolling(seriesimulada11graf1, 7, 1);
[Movavgv8graf, UpperBand8graf, LowerBand8graf] = bolling(seriesimulada11graf1, 8, 1);
[Movavgv9graf, UpperBand9graf, LowerBand9graf] = bolling(seriesimulada11graf1, 9, 1);
[Movavgv10graf, UpperBand10graf, LowerBand10graf] = bolling(seriesimulada11graf1, 10, 1);
[Movavgv11graf, UpperBand11graf, LowerBand11graf] = bolling(seriesimulada11graf1, 11, 1);
[Movavgv12graf, UpperBand12graf, LowerBand12graf] = bolling(seriesimulada11graf1, 12, 1);
[Movavgv13graf, UpperBand13graf, LowerBand13graf] = bolling(seriesimulada11graf1, 13, 1);
[Movavgv14graf, UpperBand14graf, LowerBand14graf] = bolling(seriesimulada11graf1, 14, 1);
[Movavgv15graf, UpperBand15graf, LowerBand15graf] = bolling(seriesimulada11graf1, 15, 1);
[Movavgv16graf, UpperBand16graf, LowerBand16graf] = bolling(seriesimulada11graf1, 16, 1);
[Movavgv17graf, UpperBand17graf, LowerBand17graf] = bolling(seriesimulada11graf1, 17, 1);
[Movavgv18graf, UpperBand18graf, LowerBand18graf] = bolling(seriesimulada11graf1, 18, 1);
[Movavgv19graf, UpperBand19graf, LowerBand19graf] = bolling(seriesimulada11graf1, 19, 1);
[Movavgv20graf, UpperBand20graf, LowerBand20graf] = bolling(seriesimulada11graf1, 20, 1);

% médias moveis SIMULADAS [Short, Long] = movavg(Asset, Lead, lag, Alpha)
[curta1graf, longa20graf] = movavg(seriesimulada11graf1, 2, 20, 0); [curta2graf,

```

```

longa19graf] = movavg(series simulada11graf1, 3, 19, 0); [curta3graf, longa18graf] =
movavg(series simulada11graf1, 4, 18, 0); [curta4graf, longa17graf] =
movavg(series simulada11graf1, 5, 17, 0); [curta5graf, longa16graf] =
movavg(series simulada11graf1, 6, 16, 0); [curta6graf, longa15graf] =
movavg(series simulada11graf1, 7, 15, 0); [curta7graf, longa14graf] =
movavg(series simulada11graf1, 8, 14, 0); [curta8graf, longa13graf] =
movavg(series simulada11graf1, 9, 13, 0); [curta9graf, longa12graf] =
movavg(series simulada11graf1, 10, 12, 0); [curta10graf, longa11graf] =
movavg(series simulada11graf1, 11, 11, 0); [curta21graf, longa22graf] =
movavg(series simulada11graf1, 21, 22, 0); [curta23graf, longa24graf] =
movavg(series simulada11graf1, 23, 24, 0); [curta25graf, longa26graf] =
movavg(series simulada11graf1, 25, 26, 0); [curta27graf, longa28graf] =
movavg(series simulada11graf1, 27, 28, 0); [curta29graf, longa30graf] =
movavg(series simulada11graf1, 29, 30, 0); [curta31graf, longa32graf] =
movavg(series simulada11graf1, 31, 32, 0);

```

% PREVISÃO 1 PASSO A FRENTE criar matriz 'preditores' 'precos' contendo os valores de x's para a regressão múltipla com defasagem de 1 trimestre

```

SERIES=x
TT=size(SERIES(:,1));
preditoress = (SERIES);
precos= (y);
T = size(precos);

w= round(T/2);
precossss = y(w:end,1); returns1
= precos(1:w,1); returns2 =
precos(w:end,1);
preditores11 = preditoress (1:w,:);

preditores22 = preditoress (w:end,:); T1=
size(returns1,1);
T2 = size(returns2,1);

[b1,se1,pval1,inmodel1,stats1,nextstep1,history1]=
stepwisefit(preditores11,returns1,'penter',.10);

coeficientest = b1.*inmodel1';

inmodel11= inmodel1';

SERIES(TT,16)=0;% completar todas colunas

SERIES(:,16)= [ ]; %deletar coluna 16
c=15;
coeficientest(16,1)=0;% completar todas colunas
coeficientes=coeficientest(1:c,1);

S1= any(SERIES (:,1)); S2=
any(SERIES (:,2)); S3=

```

```

any(SERIES (:,3)); S4=
any(SERIES (:,4)); S5=
any(SERIES (:,5)); S6=
any(SERIES (:,6)); S7=
any(SERIES (:,7)); S8=
any(SERIES (:,8)); S9=
any(SERIES (:,9));
S10= any(SERIES (:,10)); S11=
any(SERIES (:,11)); S12=
any(SERIES (:,12)); S13=
any(SERIES (:,13)); S14=
any(SERIES (:,14)); S15=
any(SERIES (:,15)); x1=
coeficientes (1,1); x2=
coeficientes (2,1); x3=
coeficientes (3,1); x4=
coeficientes (4,1); x5=
coeficientes (5,1); x6=
coeficientes (6,1); x7=
coeficientes (7,1); x8=
coeficientes (8,1); x9=
coeficientes (9,1); x10=
coeficientes (10,1); x11=
coeficientes (11,1); x12=
coeficientes (12,1); x13=
coeficientes (13,1); x14=
coeficientes (14,1); x15=
coeficientes (15,1);
if S15==0 |x15==0, SERIES(:,15)= [], end;
if S14==0 |x14==0, SERIES(:,14)= [], end; if
S13==0 |x13==0, SERIES(:,13)= [], end; if
S12==0 |x12==0, SERIES(:,12)= [], end; if
S11==0 |x11==0, SERIES(:,11)= [], end; if
S10==0 |x10==0, SERIES(:,10)= [], end;
% deletar colunas em branco
if S9==0 |x9==0, SERIES(:,9)= [ ], end;
if S8==0 |x8==0, SERIES(:,8)= [ ], end;
if S7==0 |x7==0, SERIES(:,7)= [ ], end; if
S6==0 |x6==0, SERIES(:,6)= [ ], end; if
S5==0 |x5==0, SERIES(:,5)= [ ], end; if
S4==0 |x4==0, SERIES(:,4)= [ ], end; if
S3==0 |x3==0, SERIES(:,3)= [ ], end; if
S2==0 |x2==0, SERIES(:,2)= [ ], end; if
S1==0 |x1==0, SERIES(:,1)= [ ], end;

```

```

TT=size(SERIES(:,1));
preditores = (SERIES);
precos= (y);
T = size(precos);

```

```

w= round(T/2);

```

```

returns1 = precos(1:w,1); returns2 =
precos(w:end,1); preditores1 =
preditores (1:w,:); preditores2 =
preditores (w:end,:); T1=
size(returns1,1);
T2 = size(returns2,1);
meanpreditores = mean(preditores);
meanprecos = mean(y); meanprecos1 =
mean(returns1); meanprecos2=
mean(returns2);
meanpreditores1 = mean(preditores1);
meanpreditores2= mean(preditores2);

```

```

XX=[ S1 S2 S3 S4 S5 S6 S7 S8 S9 S10 S11 S12 S13 S14 S15];
zz=[ x1 x2 x3 x4 x5 x6 x7 x8 x9 x10 x11 x12 x13 x14 x15];

```

```

X = [ones(size(preditores1,1),1) preditores1(:,1:end)]; % matriz com constante e regressores
[b,bint,r,rint,stats] = regress(returns1,X);

```

```
fit=X*b;
```

```
% criar matriz com as colunas restantes PARA EQUAÇÃO DE PREVISÃO – PREDITORES2
```

```
PP = [ones(size(preditores2,1),1) preditores2(:,1:end)]; % matriz com constante e regressores
```

```
[bp,bint2,r2,rint2,stats2] = regress(returns2,PP);
```

```
fitp=PP*b;
```

```
fitp1= fitp';
```

```
mse1=mse(returns2-fitp); % Cálculo do erro mínimo quadrado
```

```
mae1=mae(returns2-fitp); % Cálculo do erro absoluto médio
```

```
% PREVISÃO 2 PASSO A FRENTE criar matriz 'preditores' 'precos' contendo os valores de x's
para a regressão múltipla com defasagem para preços e preditores em 2 trimestre
```

```
SERIEStwo=x;
```

```
SERIEStwo(1,:)=[];
```

```
D=size(y); ytwo=y(1:D-
1,:); SERIEStwo(1,:)=[];
```

```
ytwo(1,:)=[];
```

```
preditorestwoaa = (SERIEStwo);
```

```
precostwoaa= (ytwo); Ttwoaa =
```

```
size(precostwoaa); wtwoaa=
```

```
round(Ttwoaa/2);
```

```
returns1twoaa = precostwoaa (1:wtwoaa,1);
```

```
returns2twoaa = precostwoaa (wtwoaa:end,1);
```

```
preditores1twoaa = preditorestwoaa (1: wtwoaa,:);
```

```
preditores2twoaa = preditorestwoaa (wtwoaa:end,:);
```

```
T1twoaa= size(returns1twoaa,1);
```

```
T2twoaa = size(returns2twoaa,1);
```



```
[b1two,se1two,pval1two,inmodel1two,stats1two,nextstep1two,history1two]=  
stepwisefit(preditores1twoaa,returns1twoaa,'penter',.70);
```

```
coeficientestwoaa = b1two.*inmodel1two';
```

```
inmodel1two= inmodel1two';  
TTtwo=size(SERIEStwo(:,1)); SERIEStwo(TTtwo,16)=0;%  
completar todas columnas SERIEStwo(:,16)= [ ]; %deletar  
columna 16  
caa=15;
```

```
coeficientestwoaa(16,1)=0;% completar todas columnas  
coeficientesaa= coeficientestwoaa(1:caa,1);
```

```
S1two= any(SERIEStwo (:,1)); S2two =  
any(SERIEStwo (:,2)); S3two =  
any(SERIEStwo (:,3)); S4two=  
any(SERIEStwo (:,4)); S5two =  
any(SERIEStwo (:,5)); S6two =  
any(SERIEStwo (:,6)); S7two =  
any(SERIEStwo (:,7)); S8two =  
any(SERIEStwo (:,8)); S9two =  
any(SERIEStwo (:,9)); S10two =  
any(SERIEStwo (:,10)); S11two =  
any(SERIEStwo (:,11)); S12two =  
any(SERIEStwo (:,12)); S13two =  
any(SERIEStwo (:,13));
```

```
S14two = any(SERIEStwo (:,14));  
S15two = any(SERIEStwo (:,15));  
x1two= coeficientesaa (1,1); x2two=  
coeficientesaa (2,1); x3two=  
coeficientesaa (3,1); x4two=  
coeficientesaa (4,1); x5two=  
coeficientesaa (5,1); x6two=  
coeficientesaa (6,1); x7two=  
coeficientesaa (7,1); x8two=  
coeficientesaa (8,1); x9two=  
coeficientesaa (9,1); x10two=  
coeficientesaa (10,1); x11two=  
coeficientesaa (11,1); x12two=  
coeficientesaa (12,1); x13two=  
coeficientesaa (13,1); x14two=  
coeficientesaa (14,1); x15two=  
coeficientesaa (15,1);
```

```
if S15two==0 |x15two==0, SERIEStwo(:,15)= [], end; if  
S14two==0 |x14two==0, SERIEStwo(:,14)= [], end; if  
S13two==0 |x13two==0, SERIEStwo(:,13)= [], end; if  
S12two==0 |x12two==0, SERIEStwo(:,12)= [], end; if  
S11two==0 |x11two==0, SERIEStwo(:,11)= [], end; if  
S10two==0 |x10two==0, SERIEStwo(:,10)= [], end;
```

```
%deletar columnas em branco
```

```
if S9two==0 |x9two==0, SERIEStwo(:,9)= [ ], end; if  
S8two==0 |x8two==0, SERIEStwo(:,8)= [ ], end; if
```

```

S7two==0 |x7two==0, SERIEStwo(:,7)= [ ], end; if
S6two==0 |x6two==0, SERIEStwo(:,6)= [ ], end; if
S5two==0 |x5two==0, SERIEStwo(:,5)= [ ], end;
if S4two==0 |x4two==0, SERIEStwo(:,4)= [ ], end; if
S3two==0 |x3two==0, SERIEStwo(:,3)= [ ], end; if
S2two==0 |x2two==0, SERIEStwo(:,2)= [ ], end; if
S1two==0 |x1two==0, SERIEStwo(:,1)= [ ], end;
preditorestwo = (SERIEStwo);
precostwo= (ytwo); Ttwo =
size(precostwo); wtwo=
round(Ttwo/2);
returns1two = precostwo (1:wtwo,1); returns2two
= precostwo (wtwo:end,1); preditores1two =
preditorestwo (1:wtwo,:); preditores2two =
preditorestwo (wtwo:end,:); T1two=
size(returns1two,1);
T2two = size(returns2two,1); meanpreditorestwo =
mean(preditorestwo); meanprecostwo =
mean(ytwo); meanprecos1two =
mean(returns1two); meanprecos2two=
mean(returns2two); meanpreditores1two =
mean(preditores1two); meanpreditores2two=
mean(preditores2two);
zztwo=[ x1two x2two x3two x4two x5two x6two x7two x8two x9two x10two x11two x12two
x13two x14two x15two];

Xtwo = [ones(size(preditores1two,1),1) preditores1two(:,1:end)]; % matriz com constante e
regressores

[btwo,binttwo,rtwo,rinntwo,statstwo] = regress(returns1two,Xtwo);

fittwo=Xtwo*btwo;

% criar matriz com as colunas restantes PARA EQUAÇÃO DE PREVISÃO – PREDITORES2

PPtwo= [ones(size(preditores2two,1),1) preditores2two(:,1:end)]; % matriz com constante e
regressores

[bptwo,bint2two,r2two,rinnt2two,stats2two] = regress(returns2two,PPtwo);
fitptwo=PPtwo*btwo;

fitp1two = fitptwo';
mse1two=mse(returns2two-fitptwo); % Cálculo do erro mínimo quadrado
mae1two=mae(returns2two-fitptwo); % Cálculo do erro absoluto médio
% PREVISÃO 3 PASSO A FRENTE criar matriz 'preditores' 'precos' contendo os valores de x's para
a regressão múltipla
SERIESthree=x;
SERIESthree(1,:)=[];
SERIESthree(1,:)=[];

Dthree=size(y);

```

```

ythree=y(1:Dthree-2,:);

preditoresthreebb = (SERIEsthree);
precosthreebb= (ythree); Tthreebb =
size(precosthreebb); wthreebb=
round(Tthreebb/2);
returns1threebb = precosthreebb (1:wthreebb,1);
returns2threebb = precosthreebb (wthreebb:end,1);
preditores1threebb = preditoresthreebb (1: wthreebb,:);
preditores2threebb = preditoresthreebb (wthreebb:end,:);
T1threebb= size(returns1threebb,1);
T2threebb = size(returns2threebb,1);
[b1three,se1three,pval1three,inmodel1three,stats1three,nextstep1three,history1three]=
stepwisefit(preditores1threebb,returns1threebb ,'penter',.10);
coeficientesthreebb = b1three.*inmodel1three'; inmodel11three=
inmodel1three';
TTthree=size(SERIEsthree(:,1));
SERIEsthree(TTthree,16)=0;% completar todas columnas
SERIEsthree(:,16)= [ ]; %deletar columna 16
cbb=15;

coeficientesthreebb(16,1)=0;% completar todas columnas
coeficientesbb= coeficientesthreebb(1:cbb,1);

S1three= any(SERIEsthree (:,1));
S2three= any(SERIEsthree (:,2));
S3three= any(SERIEsthree (:,3));
S4three= any(SERIEsthree (:,4));
S5three= any(SERIEsthree (:,5));
S6three= any(SERIEsthree (:,6));
S7three= any(SERIEsthree (:,7));
S8three= any(SERIEsthree (:,8));
S9three= any(SERIEsthree (:,9));
S10three= any(SERIEsthree (:,10));
S11three= any(SERIEsthree (:,11));
S12three= any(SERIEsthree (:,12));
S13three= any(SERIEsthree (:,13));
S14three= any(SERIEsthree (:,14));
S15three= any(SERIEsthree (:,15));

x1three= coeficientesbb(1,1);
x2three= coeficientesbb(2,1);
x3three= coeficientesbb(3,1);
x4three= coeficientesbb(4,1);
x5three= coeficientesbb(5,1);
x6three= coeficientesbb(6,1);
x7three= coeficientesbb(7,1);
x8three= coeficientesbb(8,1);
x9three= coeficientesbb(9,1);
x10three= coeficientesbb(10,1);
x11three= coeficientesbb(11,1);
x12three= coeficientesbb(12,1);

```

```

x13three= coeficientesbb(13,1);
x14three= coeficientesbb(14,1);
x15three= coeficientesbb(15,1);

if S15three==0 |x15three==0, SERIESthree(:,15)= [], end; if
S14three==0 |x14three==0, SERIESthree(:,14)= [], end; if
S13three==0 |x13three==0, SERIESthree(:,13)= [], end; if
S12three==0 |x12three==0, SERIESthree(:,12)= [], end; if
S11three==0 |x11three==0, SERIESthree(:,11)= [], end; if
S10three==0 |x10three==0, SERIESthree(:,10)= [], end;
%deletar colunas em branco

if S9three==0 |x9three==0, SERIESthree(:,9)= [ ], end; if
S8three==0 |x8three==0, SERIESthree(:,8)= [ ], end; if
S7three==0 |x7three==0, SERIESthree(:,7)= [ ], end; if
S6three==0 |x6three==0, SERIESthree(:,6)= [ ], end; if
S5three==0 |x5three==0, SERIESthree(:,5)= [ ], end; if
S4three==0 |x4three==0, SERIESthree(:,4)= [ ], end; if
S3three==0 |x3three==0, SERIESthree(:,3)= [ ], end; if
S2three==0 |x2three==0, SERIESthree(:,2)= [ ], end; if
S1three==0 |x1three==0, SERIESthree(:,1)= [ ], end;

preditoresthree = (SERIESthree);
precosthree= (ythree); Tthree =
size(precosthree); wthree=
round(Tthree/2);
returns1three = precosthree(1:wthree,1);

returns2three = precosthree(wthree:end,1);
preditores1three = preditoresthree(1:wthree,:);
preditores2three = preditoresthree(wthree:end,:);
T1three= size(returns1three,1);
T2three = size(returns2three,1);

meanpreditoresthree = mean(preditoresthree);
meanprecosthree = mean(ythree); meanprecos1three
= mean(returns1three); meanprecos2three=
mean(returns2three); meanpreditores1three =
mean(preditores1three); meanpreditores2three=
mean(preditores2three);

zzthree=[ x1three x2three x3three x4three x5three x6three x7three x8three x9three x10three
x11three x12three x13three x14three x15three];

Xthree = [ones(size(preditores1three,1),1) preditores1three(:,1:end)]; % matriz com constante e
regressores

[bthree,binththree,rthree,rinththree,statsthree] = regress(returns1three,Xthree);

fitthree=Xthree*bthree;
TT1three=size(preditores2three(:,1));

```

```

% criar matriz com as colunas restantes PARA EQUAÇÃO DE PREVISÃO – PREDITORES2
PPthree= [ones(size(preditores2three,1),1) preditores2three(:,1:end)]; % matriz com constante e regressores

[bpthree,bint2three,r2three,rint2three,stats2three] = regress(returns2three,PPthree);

fitpthree=PPthree*bthree;

fitp1three = fitpthree';

mse1three=mse(returns2three-fitpthree); % Cálculo do erro mínimo quadrado
mae1three=mae(returns2three-fitpthree); % Cálculo do erro absoluto médio

MS EXCEL
Sub vonpiteriniciar()

" vonpiteriniciar Macro

' Macro gravada em 12/02/2009 por JOSÉ DE PIETRO NETO

' Atalho do teclado: Ctrl+i

    Application.Run "macro tese oficial 1 - regressão múltipla.xls!vonpiter1" End
Sub

Sub vonpiter1()

' vonpiter1 Macro

' Macro gravada em 12/02/2009 por JOSÉ DE PIETRO NETO

' Atalho do teclado: Ctrl+d

    Sheets("Plan8").Select

    Range("B1").Select

    ActiveCell.FormulaR1C1 = "=MIGetMatrix( ""meanpreditores"" , ""Plan8!D1"" )"
    Range("B2").Select
    ActiveCell.FormulaR1C1 = "=MIGetMatrix( ""meanprecos1"" , ""Plan8!D2"" )"
    Range("B3").Select
    ActiveCell.FormulaR1C1 = "=MIGetMatrix( ""meanprecos2"" , ""Plan8!D3"" )"

    Range("B4").Select
    ActiveCell.FormulaR1C1 = "=MIGetMatrix( ""meanpreditores1"" , ""Plan8!D4"" )"
    Range("B5").Select
    ActiveCell.FormulaR1C1 = "=MIGetMatrix( ""meanprecos"" , ""Plan8!D5"" )"
    Range("B6").Select
    ActiveCell.FormulaR1C1 = "=MIGetMatrix( ""b1"" , ""Plan8!D8"" )"
    Range("B7").Select
    ActiveCell.FormulaR1C1 = "=MIGetMatrix( ""se1"" , ""Plan8!e8"" )"
    Range("B8").Select

```

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pval1""", ""Plan8!f8""")"
Range("B9").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""inmodel11""", ""Plan8!g8""")"
Range("B10").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""stats1""", ""Plan8!h8""")"
Range("B11").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""nextstep1""", ""Plan8!i8""")"
Range("B12").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""history1""", ""Plan8!m8""")"
Range("B16").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""b""", ""Plan8!n8""")"
Range("B17").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""bint""", ""Plan8!o8""")"
Range("B18").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""rint""", ""Plan8!r8""")"
Range("B19").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""stats""", ""Plan8!t8""")"
Range("B20").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""bp""", ""Plan8!x8""")"
Range("B21").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""bint2""", ""Plan8!y8""")"
Range("B22").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""r2""", ""Plan8!aa8""")"
Range("B23").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""rint2""", ""Plan8!ab8""")"
Range("B24").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""stats2""", ""Plan8!ad8""")"
Range("B25").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""w""", ""Plan8!d25""")"
Range("B26").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""S1""", ""Plan8!d26""")"
Range("B27").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""S2""", ""Plan8!d27""")"
Range("B28").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""S3""", ""Plan8!d28""")"
Range("B29").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""S4""", ""Plan8!d29""")"
Range("B30").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""S5""", ""Plan8!d30""")"
Range("B31").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""S6""", ""Plan8!d31""")"
Range("B32").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""S7""", ""Plan8!d32""")"
Range("B33").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""S8""", ""Plan8!d33""")"
Range("B34").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""S9""", ""Plan8!d34""")"
Range("B35").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""S10""", ""Plan8!d35""")"
Range("B36").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""S11""", ""Plan8!d36""")"

```

Range("B37").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""S12""", ""Plan8!d37""")"
Range("B38").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""S13""", ""Plan8!d38""")"
Range("B39").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""S14""", ""Plan8!d39""")"
Range("B40").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""S15""", ""Plan8!d40""")"
Range("B41").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""meanpreditores2""", ""Plan8!d41""")"
Range("B42").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""r""", ""Plan8!q8""")"
Range("B43").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""T""", ""Plan8!d43""")"
Range("B44").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""T""", ""Plan8!d44""")"
Range("B45").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""T1""", ""Plan8!d45""")"
Range("B46").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""T2""", ""Plan8!d46""")"
Range("B48").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mse1""", ""Plan8!d48""")"
Range("B49").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mse1two""", ""Plan8!d49""")"
Range("B50").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mse1three""", ""Plan8!d50""")"
Range("B51").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mae1""", ""Plan8!d51""")"
Range("B52").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mae1two""", ""Plan8!d52""")"
Range("B53").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mae1three""", ""Plan8!d53""")"
Range("B57").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""fitp""", ""Plan8!aq6""")"
Range("B58").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""returns2""", ""Plan8!ap6""")"
Range("B59").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""zz""", ""Plan8!d59""")"
Range("B60").Select

Sheets("12").Select
Range("B1").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""meanpreditorestwo""", ""12!D1""")"
Range("B2").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""meanprecos1two""", ""12!D2""")"
Range("B3").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""meanprecos2two""", ""12!D3""")"
Range("B4").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""meanpreditores1two""", ""12!D4""")"
Range("B5").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""meanprecostwo""", ""12!D5""")"

```

Range("B6").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""b1two""", ""12!D8""")"
Range("B7").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""se1two""", ""12!e8""")"
Range("B8").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pval1two""", ""12!f8""")"
Range("B9").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""inmodel11two""", ""12!g8""")"
Range("B10").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""stats1two""", ""12!h8""")"
Range("B11").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""nextstep1two""", ""12!i8""")"
Range("B12").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""history1two""", ""12!m8""")"
Range("B16").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""btwo""", ""12!n8""")"
Range("B17").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""binttwo""", ""12!o8""")"
Range("B18").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""rinttwo""", ""12!r8""")"
Range("B19").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""statstwo""", ""12!t8""")"
Range("B20").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""bptwo""", ""12!x8""")"
Range("B21").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""bint2two""", ""12!y8""")"
Range("B22").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""r2two""", ""12!aa8""")"
Range("B23").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""rint2two""", ""12!ab8""")"
Range("B24").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""stats2two""", ""12!ad8""")"
Range("B25").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""wtwo""", ""12!d25""")"
Range("B26").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""S1two""", ""12!d26""")"
Range("B27").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""S2two""", ""12!d27""")"
Range("B28").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""S3two""", ""12!d28""")"
Range("B29").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""S4two""", ""12!d29""")"
Range("B30").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""S5two""", ""12!d30""")"
Range("B31").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""S6two""", ""12!d31""")"
Range("B32").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""S7two""", ""12!d32""")"
Range("B33").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""S8two""", ""12!d33""")"
Range("B34").Select


```

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""S9two""", ""12!d34""")"
Range("B35").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""S10two""", ""12!d35""")"
Range("B36").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""S11two""", ""12!d36""")"
Range("B37").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""S12two""", ""12!d37""")"
Range("B38").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""S13two""", ""12!d38""")"
Range("B39").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""S14two""", ""12!d39""")"
Range("B40").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""S15two""", ""12!d40""")"
Range("B41").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""meanpreditores2two""", ""12!d41""")"
Range("B42").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""rtwo""", ""12!q8""")"
Range("B43").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""TTtwo""", ""12!d43""")"
Range("B44").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""Ttwo""", ""12!d44""")"
Range("B45").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""T1two""", ""12!d45""")"
Range("B46").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""T2two""", ""12!d46""")"
Range("B48").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mse1""", ""12!d48""")"
Range("B49").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mse1two""", ""12!d49""")"
Range("B50").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mse1three""", ""12!d50""")"
Range("B51").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mae1""", ""12!d51""")"
Range("B52").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mae1two""", ""12!d52""")"

Range("B53").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mae1three""", ""12!d53""")"
Range("B57").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""fitptwo""", ""Plan8!ar7""")"

Range("B59").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""zztwo""", ""12!d59""")"
Range("B60").Select
Sheets("13").Select
Range("B1").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""meanpreditoresthree""", ""13!D1""")"
Range("B2").Select

```

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""meanprecos1three""", ""13!D2""")"

Range("B3").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""meanprecos2three""", ""13!D3""")"

Range("B4").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""meanpreditores1three""", ""13!D4""")"

Range("B5").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""meanprecosthree""", ""13!D5""")"

Range("B6").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""b1three""", ""13!D8""")"

Range("B7").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""se1three""", ""13!e8""")"

Range("B8").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pval1three""", ""13!f8""")"

Range("B9").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""inmodel11three""", ""13!g8""")"

Range("B10").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""stats1three""", ""13!h8""")"

Range("B11").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""nextstep1three""", ""13!i8""")"

Range("B12").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""history1three""", ""13!m8""")"

Range("B16").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""bthree""", ""13!n8""")"

Range("B17").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""bintthree""", ""13!o8""")"

Range("B18").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""rintthree""", ""13!r8""")"

Range("B19").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""statsthree""", ""13!t8""")"

Range("B20").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""bpthree""", ""13!x8""")"

Range("B21").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""bint2three""", ""13!y8""")"

Range("B22").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""r2three""", ""13!aa8""")"

Range("B23").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""rint2three""", ""13!ab8""")"

Range("B24").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""stats2three""", ""13!ad8""")"

Range("B25").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""wthree""", ""13!d25""")"

Range("B26").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""S1three""", ""13!d26""")"

Range("B27").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""S2three""", ""13!d27""")"
Range("B28").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""S3three""", ""13!d28""")"
Range("B29").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""S4three""", ""13!d29""")"
Range("B30").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""S5three""", ""13!d30""")"
Range("B31").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""S6three""", ""13!d31""")"
Range("B32").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""S7three""", ""13!d32""")"
Range("B33").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""S8three""", ""13!d33""")"
Range("B34").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""S9three""", ""13!d34""")"
Range("B35").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""S10three""", ""13!d35""")"

Range("B36").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""S11three""", ""13!d36""")"
Range("B37").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""S12three""", ""13!d37""")"

Range("B38").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""S13three""", ""13!d38""")"
Range("B39").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""S14three""", ""13!d39""")"

Range("B40").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""S15three""", ""13!d40""")"
Range("B41").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""meanpreditores2three""", ""13!d41""")"
Range("B42").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""rthree""", ""13!q8""")"
Range("B43").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""Tthree""", ""13!d43""")"
Range("B44").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""Tthree""", ""13!d44""")"
Range("B45").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""T1three""", ""13!d45""")"
Range("B46").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""T2three""", ""13!d46""")"
Range("B47").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""T1three""", ""13!d47""")"
Range("B48").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mse1""", ""13!d48""")"
Range("B49").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mse1three""", ""13!d49""")"
Range("B50").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mse1three""", ""13!d50""")"

Range("B51").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mae1""", ""13!d51""")"

Range("B52").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mae1three""", ""13!d52""")"

Range("B53").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mae1three""", ""13!d53""")"

Range("B57").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""fitpthree""", ""Plan8!as7""")"

Range("B59").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""zzthree""", ""13!d59""")"

Range("B60").Select

Sheets("Plan8").Select

Range("AU7").Select

Selection.AutoFill Destination:=Range("AU7:AU2790")

Range("AU7:AU2790").Select

Range("AV7").Select

Selection.AutoFill Destination:=Range("AV7:AV2790")

Range("AV7:AV2790").Select

Range("AW7").Select

Selection.AutoFill Destination:=Range("AW7:AW2790")

Range("AW7:AW2790").Select

Range("AX7").Select

Selection.AutoFill Destination:=Range("AX7:AX2790")

Range("AX7:AX2790").Select

Range("AY7").Select

Selection.AutoFill Destination:=Range("AY7:AY2790")

Range("AY7:AY2790").Select

Range("AZ7").Select

Selection.AutoFill Destination:=Range("AZ7:AZ2790")

Range("AZ7:AZ2790").Select

Range("BA7").Select

Selection.AutoFill Destination:=Range("BA7:BA2790")

Range("BA7:BA2790").Select

Range("BB7").Select

Selection.AutoFill Destination:=Range("BB7:BB2790")

Range("BB7:BB2790").Select
Range("BC7").Select

Selection.AutoFill Destination:=Range("BC7:BC2790")
Range("BC7:BC2790").Select
Range("BD7").Select

Selection.AutoFill Destination:=Range("BD7:BD2790")
Range("BD7:BD2790").Select
Range("BE7").Select

Selection.AutoFill Destination:=Range("BE7:BE2790")
Range("BE7:BE2790").Select
Range("BF7").Select

Selection.AutoFill Destination:=Range("BF7:BF2790")
Range("BF7:BF2790").Select
Range("BG7").Select

Selection.AutoFill Destination:=Range("BG7:BG2790")
Range("BG7:BG2790").Select
Range("BH7").Select

Selection.AutoFill Destination:=Range("BH7:BH2790")
Range("BH7:BH2790").Select
Range("BI7").Select

Selection.AutoFill Destination:=Range("BI7:BI2790")
Range("BI7:BI2790").Select
Range("BJ7").Select

Selection.AutoFill Destination:=Range("BJ7:BJ2790")
Range("BJ7:BJ2790").Select

Range("BK7").Select

Selection.AutoFill Destination:=Range("BK7:BK2790")
Range("BK7:BK2790").Select
Range("BL7").Select

Selection.AutoFill Destination:=Range("BL7:BL2790")
Range("BL7:BL2790").Select
Range("BM7").Select

Selection.AutoFill Destination:=Range("BM7:BM2790")
Range("BM7:BM2790").Select
Range("BN7").Select

Selection.AutoFill Destination:=Range("BN7:BN2790")
Range("BN7:BN2790").Select
Range("BO7").Select

Selection.AutoFill Destination:=Range("BO7:BO2790")

Range("B07:B02790").Select
Range("BP7").Select

Selection.AutoFill Destination:=Range("BP7:BP2790")
Range("BP7:BP2790").Select
Range("BQ7").Select

Selection.AutoFill Destination:=Range("BQ7:BQ2790")
Range("BQ7:BQ2790").Select
Range("BR7").Select

Selection.AutoFill Destination:=Range("BR7:BR2790")
Range("BR7:BR2790").Select
Range("BS7").Select

Selection.AutoFill Destination:=Range("BS7:BS2790")
Range("BS7:BS2790").Select
Range("BT7").Select
Selection.AutoFill Destination:=Range("BT7:BT2790")
Range("BT7:BT2790").Select

Range("BU7").Select

Selection.AutoFill Destination:=Range("BU7:BU2790")
Range("BU7:BU2790").Select
Range("BV7").Select

Selection.AutoFill Destination:=Range("BV7:BV2790")
Range("BV7:BV2788").Select
Range("BW7").Select

Selection.AutoFill Destination:=Range("BW7:BW2790")
Range("BW7:BW2790").Select
Range("BX7").Select

Selection.AutoFill Destination:=Range("BX7:BX2790")
Range("BX7:BX2790").Select
Range("BY7").Select

Selection.AutoFill Destination:=Range("BY7:BY2790")
Range("BY7:BY2790").Select
Range("BZ7").Select

Selection.AutoFill Destination:=Range("BZ7:BZ2790")
Range("BZ7:BZ2790").Select
Range("CA7").Select

Selection.AutoFill Destination:=Range("CA7:CA2790")
Range("CA7:CA2790").Select
Range("CB7").Select

Selection.AutoFill Destination:=Range("CB7:CB2790")
Range("CB7:CB2790").Select

Range("CC7").Select

Selection.AutoFill Destination:=Range("CC7:CC2790")

Range("CC7:CC2790").Select

Range("CD7").Select

Selection.AutoFill Destination:=Range("CD7:CD2790")

Range("CD7:CD2790").Select

Range("CE7").Select

Selection.AutoFill Destination:=Range("CE7:CE2790")

Range("CE7:CE2790").Select

Range("CF7").Select

Selection.AutoFill Destination:=Range("CF7:CF2790")

Range("CF7:CF2790").Select

Range("CG7").Select

Selection.AutoFill Destination:=Range("CG7:CG2790")

Range("CG7:CG2790").Select

Range("CH7").Select

Selection.AutoFill Destination:=Range("CH7:CH2790")

Range("CH7:CH2790").Select

Range("CI7").Select

Selection.AutoFill Destination:=Range("CI7:CI2790")

Range("CI7:CI2790").Select

Range("CJ7").Select

Selection.AutoFill Destination:=Range("CJ7:CJ2790")

Range("CJ7:CJ2790").Select

Range("CK7").Select

Selection.AutoFill Destination:=Range("CK7:CK2790")

Range("CK7:CK2790").Select

Range("CL7").Select

Selection.AutoFill Destination:=Range("CL7:CL2790")

Range("CL7:CL2790").Select

Range("CM7").Select

Selection.AutoFill Destination:=Range("CM7:CM2790")

Range("CM7:CM2790").Select

' PREENchimento número de ordens

Range("BE2900").Select

Selection.AutoFill Destination:=Range("BE2900:BE6000")

Range("BE2900:BE6000").Select

Range("BF2900").Select

Selection.AutoFill Destination:=Range("BF2900:BF6000")

Range("BF2900:BF6000").Select
Range("BG2900").Select

Selection.AutoFill Destination:=Range("BG2900:BG6000")
Range("BG2900:BG6000").Select
Range("BH2900").Select

Selection.AutoFill Destination:=Range("BH2900:BH6000")
Range("BH2900:BH6000").Select
Range("BI2900").Select

Selection.AutoFill Destination:=Range("BI2900:BI6000")
Range("BI2900:BI6000").Select
Range("BJ2900").Select

Selection.AutoFill Destination:=Range("BJ2900:BJ6000")
Range("BJ2900:BJ6000").Select
Range("BK2900").Select

Selection.AutoFill Destination:=Range("BK2900:BK6000")
Range("BK2900:BK6000").Select
Range("BL2900").Select

Selection.AutoFill Destination:=Range("BL2900:BL6000")
Range("BL2900:BL6000").Select
Range("BM2900").Select

Selection.AutoFill Destination:=Range("BM2900:BM6000")
Range("BM2900:BM6000").Select
Range("BN2900").Select

Selection.AutoFill Destination:=Range("BN2900:BN6000")
Range("BN2900:BN6000").Select
Range("BO2900").Select

Selection.AutoFill Destination:=Range("BO2900:BO6000")
Range("BO2900:BO6000").Select
Range("BP2900").Select

Selection.AutoFill Destination:=Range("BP2900:BP6000")
Range("BP2900:BP6000").Select
Range("BQ2900").Select

Selection.AutoFill Destination:=Range("BQ2900:BQ6000")
Range("BQ2900:BQ6000").Select
Range("BR2900").Select

Selection.AutoFill Destination:=Range("BR2900:BR6000")
Range("BR2900:BR6000").Select
Range("BS2900").Select

Selection.AutoFill Destination:=Range("BS2900:BS6000")
Range("BS2900:BS6000").Select


```

Range("BT2900").Select

Selection.AutoFill Destination:=Range("BT2900:BT6000")
Range("BT2900:BT6000").Select
Range("BU2900").Select

Selection.AutoFill Destination:=Range("BU2900:BU6000")
Range("BU2900:BU6000").Select
Range("By1").Select

' ajuste manual de ordens

End Sub

Sub vonpiteriniciar()

' vonpiteriniciar Macro

' Macro gravada em 12/02/2009 por JOSÉ DE PIETRO NETO

' Atalho do teclado: Ctrl+i

Application.Run ""macro tese oficial 7 - ARCH GARCH.xls!vonpiter1"
Application.Run ""macro tese oficial 7 - ARCH GARCH.xls!vonpiter2"
Application.Run ""macro tese oficial 7 - ARCH GARCH.xls!vonpiter3"
Application.Run ""macro tese oficial 7 - ARCH GARCH.xls!vonpiter4"
Application.Run ""macro tese oficial 7 - ARCH GARCH.xls!vonpiter5"
Application.Run ""macro tese oficial 7 - ARCH GARCH.xls!vonpiter6"
Application.Run ""macro tese oficial 7 - ARCH GARCH.xls!vonpiter7"
Application.Run ""macro tese oficial 7 - ARCH GARCH.xls!vonpiter8"
Application.Run ""macro tese oficial 7 - ARCH GARCH.xls!vonpiter9"
Application.Run ""macro tese oficial 7 - ARCH GARCH.xls!vonpiter10"
Application.Run ""macro tese oficial 7 - ARCH GARCH.xls!vonpiter11"
Application.Run ""macro tese oficial 7 - ARCH GARCH.xls!vonpiter12"
Application.Run ""macro tese oficial 7 - ARCH GARCH.xls!vonpiter13"
Application.Run ""macro tese oficial 7 - ARCH GARCH.xls!vonpiter14"
Application.Run ""macro tese oficial 7 - ARCH GARCH.xls!vonpiter15"
Application.Run ""macro tese oficial 7 - ARCH GARCH.xls!vonpiter16"
Application.Run ""macro tese oficial 7 - ARCH GARCH.xls!vonpiter17"
Application.Run ""macro tese oficial 7 - ARCH GARCH.xls!vonpiter18"
Application.Run ""macro tese oficial 7 - ARCH GARCH.xls!vonpiter19"
Application.Run ""macro tese oficial 7 - ARCH GARCH.xls!vonpiter20"
Application.Run ""macro tese oficial 7 - ARCH GARCH.xls!vonpiter21"
Application.Run ""macro tese oficial 7 - ARCH GARCH.xls!vonpiter22"
Application.Run ""macro tese oficial 7 - ARCH GARCH.xls!vonpiter23"
Application.Run ""macro tese oficial 7 - ARCH GARCH.xls!vonpiter24"
Application.Run ""macro tese oficial 7 - ARCH GARCH.xls!vonpiter25"
Application.Run ""macro tese oficial 7 - ARCH GARCH.xls!vonpiter26"

End Sub

Sub vonpiter1()

```

```

'
' vonpiter1 Macro

' Macro gravada em 12/02/2009 por JOSÉ DE PIETRO NETO

'
' Atalho do teclado: Ctrl+d

'Sheets("Plan8").Select

    Range("B1").Select

    ActiveCell.FormulaR1C1 = "=MIGetMatrix( ""Hpp11"" , ""Plan8!D1"" )"
    Range("B2").Select
    ActiveCell.FormulaR1C1 = "=MIGetMatrix( ""PValuepp11"" , ""Plan8!D2"" )"
    Range("B3").Select
    ActiveCell.FormulaR1C1 = "=MIGetMatrix( ""TStatpp11"" , ""Plan8!D3"" )"

    Range("B4").Select

    ActiveCell.FormulaR1C1 = "=MIGetMatrix( ""CValuepp11"" , ""Plan8!D4"" )"
    Range("B5").Select
    ActiveCell.FormulaR1C1 = "=MIGetMatrix( ""hdf11"" , ""Plan8!D5"" )"

    Range("B6").Select

    ActiveCell.FormulaR1C1 = "=MIGetMatrix( ""pValuedf11"" , ""Plan8!D6"" )"
    Range("B7").Select
    ActiveCell.FormulaR1C1 = "=MIGetMatrix( ""tStatdf11"" , ""Plan8!D7"" )"

    Range("B8").Select

    ActiveCell.FormulaR1C1 = "=MIGetMatrix( ""cValuedf11"" , ""Plan8!D8"" )"
    Range("B9").Select
    ActiveCell.FormulaR1C1 = "=MIGetMatrix( ""HppA11"" , ""Plan8!D9"" )"
    Range("B10").Select
    ActiveCell.FormulaR1C1 = "=MIGetMatrix( ""PValueppA11"" , ""Plan8!D10"" )"
    Range("B11").Select

    ActiveCell.FormulaR1C1 = "=MIGetMatrix( ""TStatppA11"" , ""Plan8!D11"" )"
    Range("B12").Select
    ActiveCell.FormulaR1C1 = "=MIGetMatrix( ""CValueppA11"" , ""Plan8!D12"" )"
    Range("B13").Select
    ActiveCell.FormulaR1C1 = "=MIGetMatrix( ""hdfA11"" , ""Plan8!D13"" )"
    Range("B14").Select
    ActiveCell.FormulaR1C1 = "=MIGetMatrix( ""pValuedfA11"" , ""Plan8!D14"" )"
    Range("B15").Select
    ActiveCell.FormulaR1C1 = "=MIGetMatrix( ""tStatdfA11"" , ""Plan8!D15"" )"
    Range("B16").Select
    ActiveCell.FormulaR1C1 = "=MIGetMatrix( ""cValuedfA11"" , ""Plan8!D16"" )"

    Range("B17").Select

```

```
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HppB11"" ,""Plan8!D17"")"
Range("B18").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""PValueppB11"" ,""Plan8!D18"")"

Range("B19").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""TStatppB11"" ,""Plan8!d19"")"
Range("B20").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CValueppB11"" ,""Plan8!d20"")"

Range("B21").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""hdfB11"" ,""Plan8!d21"")"
Range("B22").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuedfB11"" ,""Plan8!d22"")"

Range("B23").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""tStatdfB11"" ,""Plan8!d23"")"
Range("B24").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""cValuedfB11"" ,""Plan8!d24"")"
Range("B25").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CorrA11"" ,""Plan8!d25"")"
Range("B26").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuecorrA11"" ,""Plan8!d26"")"
Range("B27").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatcorrA11"" ,""Plan8!d27"")"
Range("B28").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValuecorrA11"" ,""Plan8!d28"")"
Range("B29").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HA11"" ,""Plan8!d29"")"
Range("B30").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValueA11"" ,""Plan8!d30"")"
Range("B31").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatA11"" ,""Plan8!d31"")"

Range("B32").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValueA11"" ,""Plan8!d32"")"
Range("B33").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""P11"" ,""Plan8!d33"")"

Range("B34").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""DW11"" ,""Plan8!d34"")"
Range("B35").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CorrB11"" ,""Plan8!d35"")"

Range("B36").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuecorrB11"" ,""Plan8!d36"")"
Range("B37").Select
```

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatcorrB11""", ""Plan8!d37""")"

Range("B38").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValuecorrB11""", ""Plan8!d38""")"

Range("B39").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HB11""", ""Plan8!d39""")"

Range("B40").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValueB11""", ""Plan8!d40""")"

Range("B41").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatB11""", ""Plan8!d41""")"

Range("B42").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValueB11""", ""Plan8!d42""")"

Range("B43").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""T""", ""Plan8!d43""")"

Range("B44").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""T1""", ""Plan8!d44""")"

Range("B45").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""AIC11""", ""Plan8!d45""")"

Range("B46").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""BIC11""", ""Plan8!d46""")"

Range("B47").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""T2""", ""Plan8!d47""")"

Range("B48").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseA11""", ""Plan8!d48""")"

Range("B49").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseB11""", ""Plan8!d49""")"

Range("B50").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseC11""", ""Plan8!d50""")"

Range("B51").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseD11""", ""Plan8!d51""")"

Range("B52").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseE11""", ""Plan8!d52""")"

Range("B53").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseF11""", ""Plan8!d53""")"

Range("B54").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseG11""", ""Plan8!d54""")"

Range("B55").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseH11""", ""Plan8!d55""")"

Range("B56").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseI11""", ""Plan8!d56""")"

Range("B57").Select

```
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseJ11""", ""Plan8!d57""")"
Range("B58").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeA11""", ""Plan8!d58""")"
Range("B59").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeB11""", ""Plan8!d59""")"
Range("B60").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeC11""", ""Plan8!d60""")"
Range("B61").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeD11""", ""Plan8!d61""")"

Range("B62").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeE11""", ""Plan8!d62""")"
Range("B63").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeF11""", ""Plan8!d63""")"

Range("B64").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeG11""", ""Plan8!d64""")"
Range("B65").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeH11""", ""Plan8!d65""")"

Range("B66").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeI11""", ""Plan8!d66""")"
Range("B67").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeJ11""", ""Plan8!d67""")"

Range("B68").Select

Sheets("12").Select

Range("B1").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""Hpp12""", ""12!D1""")"
Range("B2").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""PValuepp12""", ""12!D2""")"
Range("B3").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""TStatpp12""", ""12!D3""")"

Range("B4").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CValuepp12""", ""12!D4""")"
Range("B5").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""hdf12""", ""12!D5""")"

Range("B6").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuedf12""", ""12!D6""")"
Range("B7").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""tStatdf12""", ""12!D7""")"
Range("B8").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""cValuedf12""", ""12!D8""")"
Range("B9").Select
```

```
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HppA12"" ,""12!D9"")"
Range("B10").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""PValueppA12"" ,""12!D10"")"
Range("B11").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""TStatppA12"" ,""12!D11"")"
Range("B12").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CValueppA12"" ,""12!D12"")"
Range("B13").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""hdfA12"" ,""12!D13"")"
Range("B14").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuedfA12"" ,""12!D14"")"
Range("B15").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""tStatdfA12"" ,""12!D15"")"
Range("B16").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""cValuedfA12"" ,""12!D16"")"

Range("B17").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HppB12"" ,""12!D17"")"
Range("B18").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""PValueppB12"" ,""12!D18"")"

Range("B19").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""TStatppB12"" ,""12!d19"")"
Range("B20").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CValueppB12"" ,""12!d20"")"

Range("B21").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""hdfB12"" ,""12!d21"")"
Range("B22").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuedfB12"" ,""12!d22"")"
Range("B23").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""tStatdfB12"" ,""12!d23"")"
Range("B24").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""cValuedfB12"" ,""12!d24"")"
Range("B25").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CorrA12"" ,""12!d25"")"
Range("B26").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuecorrA12"" ,""12!d26"")"
Range("B27").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatcorrA12"" ,""12!d27"")"
Range("B28").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValuecorrA12"" ,""12!d28"")"
Range("B29").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HA12"" ,""12!d29"")"
Range("B30").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValueA12"" ,""12!d30"")"
Range("B31").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatA12"" ,""12!d31"")"

Range("B32").Select
```

```
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValueA12""", ""12!d32"")"
Range("B33").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""P12""", ""12!d33"")"

Range("B34").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""DW12""", ""12!d34"")"
Range("B35").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CorrB12""", ""12!d35"")"

Range("B36").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuecorrB12""", ""12!d36"")"
Range("B37").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatcorrB12""", ""12!d37"")"
Range("B38").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValuecorrB12""", ""12!d38"")"
Range("B39").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HB12""", ""12!d39"")"
Range("B40").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValueB12""", ""12!d40"")"
Range("B41").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatB12""", ""12!d41"")"
Range("B42").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValueB12""", ""12!d42"")"
Range("B43").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""T""", ""12!d43"")"
Range("B44").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""T1""", ""12!d44"")"
Range("B45").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""AIC12""", ""12!d45"")"
Range("B46").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""BIC12""", ""12!d46"")"

Range("B47").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""T2""", ""12!d47"")"
Range("B48").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseA12""", ""12!d48"")"

Range("B49").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseB12""", ""12!d49"")"
Range("B50").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseC12""", ""12!d50"")"

Range("B51").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseD12""", ""12!d51"")"
Range("B52").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseE12""", ""12!d52"")"
Range("B53").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseF12""", ""12!d53"")"
```

```
Range("B54").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseG12""", ""12!d54""")"
Range("B55").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseH12""", ""12!d55""")"
Range("B56").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseI12""", ""12!d56""")"
Range("B57").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseJ12""", ""12!d57""")"
Range("B58").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeA12""", ""12!d58""")"
Range("B59").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeB12""", ""12!d59""")"
Range("B60").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeC12""", ""12!d60""")"
Range("B61").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeD12""", ""12!d61""")"

Range("B62").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeE12""", ""12!d62""")"
Range("B63").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeF12""", ""12!d63""")"

Range("B64").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeG12""", ""12!d64""")"
Range("B65").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeH12""", ""12!d65""")"

Range("B66").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeI12""", ""12!d66""")"
Range("B67").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeJ12""", ""12!d67""")"
Range("B68").Select
ActiveCell.FormulaR1C1 = ""
```

```
Sheets("13").Select
```

```
Range("B1").Select
```

```
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""Hpp13""", ""13!D1""")"
Range("B2").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""PValuepp13""", ""13!D2""")"
Range("B3").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""TStatpp13""", ""13!D3""")"
Range("B4").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CValuepp13""", ""13!D4""")"
Range("B5").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""hdf13""", ""13!D5""")"
Range("B6").Select
```


ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuedf13""", ""13!D6""")"
Range("B7").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""tStatdf13""", ""13!D7""")"

Range("B8").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""cValuedf13""", ""13!D8""")"
Range("B9").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HppA13""", ""13!D9""")"

Range("B10").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""PValueppA13""", ""13!D10""")"
Range("B11").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""TStatppA13""", ""13!D11""")"

Range("B12").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CValueppA13""", ""13!D12""")"
Range("B13").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""hdfA13""", ""13!D13""")"
Range("B14").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuedfA13""", ""13!D14""")"
Range("B15").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""tStatdfA13""", ""13!D15""")"
Range("B16").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""cValuedfA13""", ""13!D16""")"
Range("B17").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HppB13""", ""13!D17""")"
Range("B18").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""PValueppB13""", ""13!D18""")"
Range("B19").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""TStatppB13""", ""13!d19""")"
Range("B20").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CValueppB13""", ""13!d20""")"
Range("B21").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""hdfB13""", ""13!d21""")"
Range("B22").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuedfB13""", ""13!d22""")"

Range("B23").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""tStatdfB13""", ""13!d23""")"
Range("B24").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""cValuedfB13""", ""13!d24""")"

Range("B25").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CorrA13""", ""13!d25""")"
Range("B26").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuecorrA13""", ""13!d26""")"

Range("B27").Select

```

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatcorrA13""", ""13!d27""")"
Range("B28").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValuecorrA13""", ""13!d28""")"
Range("B29").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HA13""", ""13!d29""")"
Range("B30").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValueA13""", ""13!d30""")"
Range("B31").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatA13""", ""13!d31""")"
Range("B32").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValueA13""", ""13!d32""")"
Range("B33").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""P13""", ""13!d33""")"
Range("B34").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""DW13""", ""13!d34""")"
Range("B35").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CorrB13""", ""13!d35""")"
Range("B36").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuecorrB13""", ""13!d36""")"
Range("B37").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatcorrB13""", ""13!d37""")"

Range("B38").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValuecorrB13""", ""13!d38""")"
Range("B39").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HB13""", ""13!d39""")

Range("B40").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValueB13""", ""13!d40""")"
Range("B41").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatB13""", ""13!d41""")

Range("B42").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValueB13""", ""13!d42""")"
Range("B43").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""T""", ""13!d43""")"
Range("B44").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""T1""", ""13!d44""")"
Range("B45").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""AIC13""", ""13!d45""")"
Range("B46").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""BIC13""", ""13!d46""")"
Range("B47").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""T2""", ""13!d47""")"
Range("B48").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseA13""", ""13!d48""")"
Range("B49").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseB13""", ""13!d49""")"
Range("B50").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseC13""", ""13!d50""")"

```

```
Range("B51").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix( ""mseD13"" , ""13!d51"" )"
Range("B52").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix( ""mseE13"" , ""13!d52"" )"

```

```
Range("B53").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix( ""mseF13"" , ""13!d53"" )"
Range("B54").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix( ""mseG13"" , ""13!d54"" )"

```

```
Range("B55").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix( ""mseH13"" , ""13!d55"" )"
Range("B56").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix( ""mseI13"" , ""13!d56"" )"

```

```
Range("B57").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix( ""mseJ13"" , ""13!d57"" )"
Range("B58").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix( ""maeA13"" , ""13!d58"" )"
Range("B59").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix( ""maeB13"" , ""13!d59"" )"
Range("B60").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix( ""maeC13"" , ""13!d60"" )"
Range("B61").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix( ""maeD13"" , ""13!d61"" )"
Range("B62").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix( ""maeE13"" , ""13!d62"" )"
Range("B63").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix( ""maeF13"" , ""13!d63"" )"
Range("B64").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix( ""maeG13"" , ""13!d64"" )"
Range("B65").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix( ""maeH13"" , ""13!d65"" )"
Range("B66").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix( ""maeI13"" , ""13!d66"" )"
Range("B67").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix( ""maeJ13"" , ""13!d67"" )"

```

```
Range("B68").Select
```

```
Sheets("14").Select
```

```
Range("B1").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix( ""Hpp14"" , ""14!D1"" )"
Range("B2").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix( ""PValuepp14"" , ""14!D2"" )"

```

```
Range("B3").Select
```

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""TStatpp14""", ""14!D3""")"
Range("B4").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CValuepp14""", ""14!D4""")"
Range("B5").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""hdf14""", ""14!D5""")"
Range("B6").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuedf14""", ""14!D6""")"
Range("B7").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""tStatdf14""", ""14!D7""")"
Range("B8").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""cValuedf14""", ""14!D8""")"
Range("B9").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HppA14""", ""14!D9""")"
Range("B10").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""PValueppA14""", ""14!D10""")"
Range("B11").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""TStatppA14""", ""14!D11""")"
Range("B12").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CValueppA14""", ""14!D12""")"
Range("B13").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""hdfA14""", ""14!D13""")"

Range("B14").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuedfA14""", ""14!D14""")"
Range("B15").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""tStatdfA14""", ""14!D15""")"

Range("B16").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""cValuedfA14""", ""14!D16""")"
Range("B17").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HppB14""", ""14!D17""")"

Range("B18").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""PValueppB14""", ""14!D18""")"
Range("B19").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""TStatppB14""", ""14!d19""")"
Range("B20").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CValueppB14""", ""14!d20""")"
Range("B21").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""hdfB14""", ""14!d21""")"
Range("B22").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuedfB14""", ""14!d22""")"
Range("B23").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""tStatdfB14""", ""14!d23""")"
Range("B24").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""cValuedfB14""", ""14!d24""")"
Range("B25").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CorrA14""", ""14!d25""")"
Range("B26").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuecorrA14""", ""14!d26""")"

```
Range("B27").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatcorrA14""", ""14!d27"")"
Range("B28").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValuecorrA14""", ""14!d28"")"

Range("B29").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HA14""", ""14!d29"")"
Range("B30").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValueA14""", ""14!d30"")"

Range("B31").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatA14""", ""14!d31"")"
Range("B32").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValueA14""", ""14!d32"")"

Range("B33").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""P14""", ""14!d33"")"
Range("B34").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""DW14""", ""14!d34"")"
Range("B35").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CorrB14""", ""14!d35"")"
Range("B36").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuecorrB14""", ""14!d36"")"
Range("B37").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatcorrB14""", ""14!d37"")"
Range("B38").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValuecorrB14""", ""14!d38"")"
Range("B39").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HB14""", ""14!d39"")"
Range("B40").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValueB14""", ""14!d40"")"
Range("B41").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatB14""", ""14!d41"")"
Range("B42").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValueB14""", ""14!d42"")"
Range("B43").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""T""", ""14!d43"")"

Range("B44").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""T1""", ""14!d44"")"
Range("B45").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""AIC14""", ""14!d45"")"

Range("B46").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""BIC14""", ""14!d46"")"
Range("B47").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""T2""", ""14!d47"")"

Range("B48").Select
```

```
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseA14""", ""14!d48""")"
Range("B49").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseB14""", ""14!d49""")"
Range("B50").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseC14""", ""14!d50""")"
Range("B51").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseD14""", ""14!d51""")"
Range("B52").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseE14""", ""14!d52""")"
Range("B53").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseF14""", ""14!d53""")"
Range("B54").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseG14""", ""14!d54""")"
Range("B55").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseH14""", ""14!d55""")"
Range("B56").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseI14""", ""14!d56""")"
Range("B57").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseJ14""", ""14!d57""")"
Range("B58").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeA14""", ""14!d58""")"

Range("B59").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeB14""", ""14!d59""")"
Range("B60").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeC14""", ""14!d60""")

Range("B61").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeD14""", ""14!d61""")"
Range("B62").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeE14""", ""14!d62""")

Range("B63").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeF14""", ""14!d63""")"
Range("B64").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeG14""", ""14!d64""")"
Range("B65").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeH14""", ""14!d65""")"
Range("B66").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeI14""", ""14!d66""")"
Range("B67").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeJ14""", ""14!d67""")"
Range("B68").Select

Sheets("21").Select

Range("B1").Select
```

```
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""Hpp21""", ""21!D1""")"
Range("B2").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""PValuepp21""", ""21!D2""")"

Range("B3").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""TStatpp21""", ""21!D3""")"
Range("B4").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CValuepp21""", ""21!D4""")"
Range("B5").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""hdf21""", ""21!D5""")"
Range("B6").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuedf21""", ""21!D6""")"
Range("B7").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""tStatdf21""", ""21!D7""")"
Range("B8").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""cValuedf21""", ""21!D8""")"
Range("B9").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HppA21""", ""21!D9""")"
Range("B10").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""PValueppA21""", ""21!D10""")"
Range("B11").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""TStatppA21""", ""21!D11""")"
Range("B12").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CValueppA21""", ""21!D12""")"
Range("B13").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""hdfA21""", ""21!D13""")"
Range("B14").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuedfA21""", ""21!D14""")"
Range("B15").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""tStatdfA21""", ""21!D15""")"
Range("B16").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""cValuedfA21""", ""21!D16""")"
Range("B17").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HppB21""", ""21!D17""")"

Range("B18").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""PValueppB21""", ""21!D18""")"
Range("B19").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""TStatppB21""", ""21!d19""")"
Range("B20").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CValueppB21""", ""21!d20""")"
Range("B21").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""hdfB21""", ""21!d21""")"
Range("B22").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuedfB21""", ""21!d22""")"
Range("B23").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""tStatdfB21""", ""21!d23""")"
Range("B24").Select
```

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""cValuedfB21""", ""21!d24"")"
Range("B25").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CorrA21""", ""21!d25"")"
Range("B26").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuecorrA21""", ""21!d26"")"

Range("B27").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatcorrA21""", ""21!d27"")"
Range("B28").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValuecorrA21""", ""21!d28"")"
Range("B29").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HA21""", ""21!d29"")"
Range("B30").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValueA21""", ""21!d30"")"
Range("B31").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatA21""", ""21!d31"")"
Range("B32").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValueA21""", ""21!d32"")"
Range("B33").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""P21""", ""21!d33"")"
Range("B34").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""DW21""", ""21!d34"")"
Range("B35").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CorrB21""", ""21!d35"")"
Range("B36").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuecorrB21""", ""21!d36"")"
Range("B37").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatcorrB21""", ""21!d37"")"
Range("B38").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValuecorrB21""", ""21!d38"")"
Range("B39").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HB21""", ""21!d39"")"
Range("B40").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValueB21""", ""21!d40"")"
Range("B41").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatB21""", ""21!d41"")"
Range("B42").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValueB21""", ""21!d42"")"
Range("B43").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""T""", ""21!d43"")"
Range("B44").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""T1""", ""21!d44"")"
Range("B45").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""AIC21""", ""21!d45"")"
Range("B46").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""BIC21""", ""21!d46"")"
Range("B47").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""T2""", ""21!d47"")"
Range("B48").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseA21""", ""21!d48"")"
Range("B49").Select


```
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseB21""", ""21!d49""")"
Range("B50").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseC21""", ""21!d50""")"
Range("B51").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseD21""", ""21!d51""")"
Range("B52").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseE21""", ""21!d52""")"
Range("B53").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseF21""", ""21!d53""")"
Range("B54").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseG21""", ""21!d54""")"
Range("B55").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseH21""", ""21!d55""")"
Range("B56").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseI21""", ""21!d56""")"
Range("B57").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseJ21""", ""21!d57""")"
Range("B58").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeA21""", ""21!d58""")"
Range("B59").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeB21""", ""21!d59""")"
Range("B60").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeC21""", ""21!d60""")"
Range("B61").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeD21""", ""21!d61""")"
Range("B62").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeE21""", ""21!d62""")"
```

```
Range("B63").Select
```

```
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeF21""", ""21!d63""")"
Range("B64").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeG21""", ""21!d64""")"
Range("B65").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeH21""", ""21!d65""")"
Range("B66").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeI21""", ""21!d66""")"
Range("B67").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeJ21""", ""21!d67""")"
Range("B68").Select
```

```
Sheets("22").Select
```

```
Range("B1").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""Hpp22""", ""22!D1""")"
Range("B2").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""PValuepp22""", ""22!D2""")"
Range("B3").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""TStatpp22""", ""22!D3""")"
Range("B4").Select
```

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CValuepp22""", ""22!D4""")"
Range("B5").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""hdf22""", ""22!D5""")"
Range("B6").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuedf22""", ""22!D6""")"
Range("B7").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""tStatdf22""", ""22!D7""")"
Range("B8").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""cValuedf22""", ""22!D8""")"
Range("B9").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HppA22""", ""22!D9""")"
Range("B10").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""PValueppA22""", ""22!D10""")"
Range("B11").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""TStatppA22""", ""22!D11""")"
Range("B12").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CValueppA22""", ""22!D12""")"
Range("B13").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""hdfA22""", ""22!D13""")"
Range("B14").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuedfA22""", ""22!D14""")"
Range("B15").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""tStatdfA22""", ""22!D15""")"
Range("B16").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""cValuedfA22""", ""22!D16""")"
Range("B17").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HppB22""", ""22!D17""")"
Range("B18").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""PValueppB22""", ""22!D18""")"
Range("B19").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""TStatppB22""", ""22!d19""")"
Range("B20").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CValueppB22""", ""22!d20""")"
Range("B21").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""hdfB22""", ""22!d21""")"
Range("B22").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuedfB22""", ""22!d22""")"
Range("B23").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""tStatdfB22""", ""22!d23""")"
Range("B24").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""cValuedfB22""", ""22!d24""")"
Range("B25").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CorrA22""", ""22!d25""")"
Range("B26").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuecorrA22""", ""22!d26""")"
Range("B27").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatcorrA22""", ""22!d27""")"
Range("B28").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValuecorrA22""", ""22!d28""")"
Range("B29").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HA22""", ""22!d29""")"

Range("B30").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValueA22""", ""22!d30""")"
Range("B31").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatA22""", ""22!d31""")"
Range("B32").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValueA22""", ""22!d32""")"
Range("B33").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""P22""", ""22!d33""")"
Range("B34").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""DW22""", ""22!d34""")"
Range("B35").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CorrB22""", ""22!d35""")"
Range("B36").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuecorrB22""", ""22!d36""")"
Range("B37").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatcorrB22""", ""22!d37""")"
Range("B38").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValuecorrB22""", ""22!d38""")"
Range("B39").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HB22""", ""22!d39""")"
Range("B40").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValueB22""", ""22!d40""")"
Range("B41").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatB22""", ""22!d41""")"
Range("B42").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValueB22""", ""22!d42""")"
Range("B43").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""T""", ""22!d43""")"
Range("B44").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""T1""", ""22!d44""")"
Range("B45").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""AIC22""", ""22!d45""")"
Range("B46").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""BIC22""", ""22!d46""")"
Range("B47").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""T2""", ""22!d47""")"
Range("B48").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseA22""", ""22!d48""")"
Range("B49").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseB22""", ""22!d49""")"
Range("B50").elect
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseC22""", ""22!d50""")"
Range("B51").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseD22""", ""22!d51""")"
Range("B52").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseE22""", ""22!d52""")"
Range("B53").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseF22""", ""22!d53""")"
Range("B54").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseG22""", ""22!d54""")"
Range("B55").Select

```
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseH22""", ""22!d55""")"
Range("B56").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseI22""", ""22!d56""")"
Range("B57").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseJ22""", ""22!d57""")"
Range("B58").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeA22""", ""22!d58""")"
Range("B59").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeB22""", ""22!d59""")"
Range("B60").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeC22""", ""22!d60""")"
Range("B61").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeD22""", ""22!d61""")"
Range("B62").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeE22""", ""22!d62""")"
Range("B63").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeF22""", ""22!d63""")"
Range("B64").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeG22""", ""22!d64""")"
Range("B65").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeH22""", ""22!d65""")"
Range("B66").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeI22""", ""22!d66""")"
Range("B67").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeJ22""", ""22!d67""")"
Range("B68").Select

Sheets("23").Select
Range("B1").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""Hpp23""", ""23!D1""")"
Range("B2").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""PValuepp23""", ""23!D2""")"
Range("B3").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""TStatpp23""", ""23!D3""")"
Range("B4").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CValuepp23""", ""23!D4""")"
Range("B5").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""hdf23""", ""23!D5""")"
Range("B6").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuedf23""", ""23!D6""")"
Range("B7").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""tStatdf23""", ""23!D7""")"
Range("B8").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""cValuedf23""", ""23!D8""")"
Range("B9").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HppA23""", ""23!D9""")"
Range("B10").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""PValueppA23""", ""23!D10""")"
Range("B11").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""TStatppA23""", ""23!D11""")"
Range("B12").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CValueppA23""", ""23!D12""")"
```

Range("B13").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""hdfA23""", ""23!D13""")"
Range("B14").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuedfA23""", ""23!D14""")"
Range("B15").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""tStatdfA23""", ""23!D15""")"
Range("B16").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""cValuedfA23""", ""23!D16""")"
Range("B17").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HppB23""", ""23!D17""")"
Range("B18").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""PValueppB23""", ""23!D18""")"
Range("B19").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""TStatppB23""", ""23!d19""")"
Range("B20").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CValueppB23""", ""23!d20""")"
Range("B21").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""hdfB23""", ""23!d21""")"
Range("B22").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuedfB23""", ""23!d22""")"
Range("B23").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""tStatdfB23""", ""23!d23""")"
Range("B24").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""cValuedfB23""", ""23!d24""")"
Range("B25").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CorrA23""", ""23!d25""")"
Range("B26").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuecorrA23""", ""23!d26""")"
Range("B27").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatcorrA23""", ""23!d27""")"
Range("B28").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValuecorrA23""", ""23!d28""")"
Range("B29").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HA23""", ""23!d29""")"
Range("B30").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValueA23""", ""23!d30""")"
Range("B31").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatA23""", ""23!d31""")"
Range("B32").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValueA23""", ""23!d32""")"
Range("B33").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""P23""", ""23!d33""")"
Range("B34").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""DW23""", ""23!d34""")"
Range("B35").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CorrB23""", ""23!d35""")"
Range("B36").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuecorrB23""", ""23!d36""")"
Range("B37").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatcorrB23""", ""23!d37""")"
Range("B38").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValuecorrB23""", ""23!d38"")"
Range("B39").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HB23""", ""23!d39"")"
Range("B40").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValueB23""", ""23!d40"")"
Range("B41").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatB23""", ""23!d41"")"
Range("B42").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValueB23""", ""23!d42"")"
Range("B43").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""T""", ""23!d43"")"
Range("B44").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""T1""", ""23!d44"")"
Range("B45").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""AIC23""", ""23!d45"")"
Range("B46").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""BIC23""", ""23!d46"")"
Range("B47").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""T2""", ""23!d47"")"
Range("B48").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseA23""", ""23!d48"")"
Range("B49").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseB23""", ""23!d49"")"
Range("B50").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseC23""", ""23!d50"")"
Range("B51").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseD23""", ""23!d51"")"
Range("B52").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseE23""", ""23!d52"")"
Range("B53").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseF23""", ""23!d53"")"
Range("B54").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseG23""", ""23!d54"")"
Range("B55").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseH23""", ""23!d55"")"
Range("B56").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseI23""", ""23!d56"")"
Range("B57").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseJ23""", ""23!d57"")"
Range("B58").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeA23""", ""23!d58"")"
Range("B59").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeB23""", ""23!d59"")"
Range("B60").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeC23""", ""23!d60"")"
Range("B61").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeD23""", ""23!d61"")"
Range("B62").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeE23""", ""23!d62"")"
Range("B63").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeF23""", ""23!d63"")"

```
Range("B64").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeG23""", ""23!d64"")"
Range("B65").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeH23""", ""23!d65"")"
Range("B66").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeI23""", ""23!d66"")"
Range("B67").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeJ23""", ""23!d67"")"
Range("B68").Select
```

```
Sheets("24").Select
Range("B1").Select
```

```
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""Hpp24""", ""24!D1"")"
Range("B2").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""PValuepp24""", ""24!D2"")"
Range("B3").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""TStatpp24""", ""24!D3"")"
Range("B4").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CValuepp24""", ""24!D4"")"
Range("B5").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""hdf24""", ""24!D5"")"
Range("B6").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuedf24""", ""24!D6"")"
Range("B7").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""tStatdf24""", ""24!D7"")"
Range("B8").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""cValuedf24""", ""24!D8"")"
Range("B9").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HppA24""", ""24!D9"")"
Range("B10").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""PValueppA24""", ""24!D10"")"
Range("B11").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""TStatppA24""", ""24!D11"")"
Range("B12").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CValueppA24""", ""24!D12"")"
Range("B13").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""hdfA24""", ""24!D13"")"
Range("B14").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuedfA24""", ""24!D14"")"
Range("B15").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""tStatdfA24""", ""24!D15"")"
Range("B16").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""cValuedfA24""", ""24!D16"")"
Range("B17").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HppB24""", ""24!D17"")"
Range("B18").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""PValueppB24""", ""24!D18"")"
Range("B19").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""TStatppB24""", ""24!d19"")"
Range("B20").Select
```

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CValueppB24""", ""24!d20"")"
Range("B21").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""hdfB24""", ""24!d21"")"
Range("B22").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuedfB24""", ""24!d22"")"
Range("B23").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""tStatdfB24""", ""24!d23"")"
Range("B24").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""cValuedfB24""", ""24!d24"")"
Range("B25").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CorrA24""", ""24!d25"")"
Range("B26").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuecorrA24""", ""24!d26"")"
Range("B27").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatcorrA24""", ""24!d27"")"
Range("B28").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValuecorrA24""", ""24!d28"")"
Range("B29").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HA24""", ""24!d29"")"
Range("B30").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValueA24""", ""24!d30"")"
Range("B31").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatA24""", ""24!d31"")"
Range("B32").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValueA24""", ""24!d32"")"
Range("B33").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""P24""", ""24!d33"")"
Range("B34").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""DW24""", ""24!d34"")"
Range("B35").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CorrB24""", ""24!d35"")"
Range("B36").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuecorrB24""", ""24!d36"")"
Range("B37").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatcorrB24""", ""24!d37"")"
Range("B38").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValuecorrB24""", ""24!d38"")"
Range("B39").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HB24""", ""24!d39"")"
Range("B40").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValueB24""", ""24!d40"")"
Range("B41").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatB24""", ""24!d41"")"
Range("B42").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValueB24""", ""24!d42"")"
Range("B43").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""T""", ""24!d43"")"
Range("B44").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""T1""", ""24!d44"")"
Range("B45").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""AIC24""", ""24!d45"")"

Range("B46").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""BIC24"" , ""24!d46"")"
Range("B47").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""T2"" , ""24!d47"")"
Range("B48").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""mseA24"" , ""24!d48"")"
Range("B49").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""mseB24"" , ""24!d49"")"
Range("B50").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""mseC24"" , ""24!d50"")"
Range("B51").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""mseD24"" , ""24!d51"")"
Range("B52").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""mseE24"" , ""24!d52"")"
Range("B53").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""mseF24"" , ""24!d53"")"
Range("B54").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""mseG24"" , ""24!d54"")"
Range("B55").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""mseH24"" , ""24!d55"")"
Range("B56").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""mseI24"" , ""24!d56"")"
Range("B57").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""mseJ24"" , ""24!d57"")"
Range("B58").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""maeA24"" , ""24!d58"")"
Range("B59").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""maeB24"" , ""24!d59"")"

Range("B60").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix(""maeC24"" , ""24!d60"")"
Range("B61").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""maeD24"" , ""24!d61"")"
Range("B62").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""maeE24"" , ""24!d62"")"
Range("B63").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""maeF24"" , ""24!d63"")"
Range("B64").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""maeG24"" , ""24!d64"")"
Range("B65").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""maeH24"" , ""24!d65"")"
Range("B66").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""maeI24"" , ""24!d66"")"
Range("B67").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""maeJ24"" , ""24!d67"")"
Range("B68").Select

Sheets("31").Select

Range("B1").Select

```
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""Hpp31""", ""31!D1""")"
Range("B2").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""PValuepp31""", ""31!D2""")"
Range("B3").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""TStatpp31""", ""31!D3""")"
Range("B4").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CValuepp31""", ""31!D4""")"
Range("B5").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""hdf31""", ""31!D5""")"
Range("B6").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuedf31""", ""31!D6""")"
Range("B7").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""tStatdf31""", ""31!D7""")"
Range("B8").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""cValuedf31""", ""31!D8""")"
Range("B9").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HppA31""", ""31!D9""")"
Range("B10").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""PValueppA31""", ""31!D10""")"
Range("B11").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""TStatppA31""", ""31!D11""")"
Range("B12").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CValueppA31""", ""31!D12""")"
Range("B13").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""hdfA31""", ""31!D13""")"
Range("B14").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuedfA31""", ""31!D14""")"

Range("B15").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""tStatdfA31""", ""31!D15""")"
Range("B16").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""cValuedfA31""", ""31!D16""")"

Range("B17").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HppB31""", ""31!D17""")"
Range("B18").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""PValueppB31""", ""31!D18""")"
Range("B19").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""TStatppB31""", ""31!d19""")"
Range("B20").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CValueppB31""", ""31!d20""")"
Range("B21").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""hdfB31""", ""31!d21""")"
Range("B22").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuedfB31""", ""31!d22""")"
Range("B23").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""tStatdfB31""", ""31!d23""")"
Range("B24").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""cValuedfB31""", ""31!d24""")"
Range("B25").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CorrA31""", ""31!d25""")"
```

Range("B26").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuecorrA31""", ""31!d26""")"
Range("B27").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatcorrA31""", ""31!d27""")"
Range("B28").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValuecorrA31""", ""31!d28""")"
Range("B29").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HA31""", ""31!d29""")"
Range("B30").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValueA31""", ""31!d30""")"
Range("B31").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatA31""", ""31!d31""")"
Range("B32").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValueA31""", ""31!d32""")"
Range("B33").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""P31""", ""31!d33""")"
Range("B34").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""DW31""", ""31!d34""")"
Range("B35").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CorrB31""", ""31!d35""")"
Range("B36").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuecorrB31""", ""31!d36""")"
Range("B37").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatcorrB31""", ""31!d37""")"
Range("B38").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValuecorrB31""", ""31!d38""")"
Range("B39").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HB31""", ""31!d39""")"
Range("B40").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValueB31""", ""31!d40""")"
Range("B41").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatB31""", ""31!d41""")"
Range("B42").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValueB31""", ""31!d42""")"
Range("B43").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""T""", ""31!d43""")"
Range("B44").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""T1""", ""31!d44""")"
Range("B45").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""AIC31""", ""31!d45""")"
Range("B46").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""BIC31""", ""31!d46""")"
Range("B47").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""T2""", ""31!d47""")"
Range("B48").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseA31""", ""31!d48""")"
Range("B49").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseB31""", ""31!d49""")"
Range("B50").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseC31""", ""31!d50""")"
Range("B51").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseD31""", ""31!d51""")"
Range("B52").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseE31""", ""31!d52""")"
Range("B53").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseF31""", ""31!d53""")"
Range("B54").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseG31""", ""31!d54""")"
Range("B55").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseH31""", ""31!d55""")"
Range("B56").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseI31""", ""31!d56""")"
Range("B57").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseJ31""", ""31!d57""")"
Range("B58").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeA31""", ""31!d58""")"
Range("B59").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeB31""", ""31!d59""")"
Range("B60").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeC31""", ""31!d60""")"
Range("B61").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeD31""", ""31!d61""")"
Range("B62").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeE31""", ""31!d62""")"
Range("B63").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeF31""", ""31!d63""")"
Range("B64").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeG31""", ""31!d64""")"
Range("B65").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeH31""", ""31!d65""")"
Range("B66").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeI31""", ""31!d66""")"
Range("B67").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeJ31""", ""31!d67""")"
Range("B68").Select
ActiveCell.FormulaR1C1 = ""
Range("B69").Select

Sheets("32").Select

Range("B2").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""PValuepp32""", ""32!D2""")"
Range("B3").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""TStatpp32""", ""32!D3""")"
Range("B1").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""Hpp32""", ""32!D1""")"
Range("B2").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""PValuepp32""", ""32!D2""")"
Range("B3").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""TStatpp32""", ""32!D3""")"
Range("B4").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CValuepp32""", ""32!D4""")"
Range("B5").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""hdf32""", ""32!D5""")"
Range("B6").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuedf32""", ""32!D6""")"
Range("B7").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""tStatdf32""", ""32!D7""")"
Range("B8").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""cValuedf32""", ""32!D8""")"
Range("B9").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HppA32""", ""32!D9""")"
Range("B10").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""PValueppA32""", ""32!D10""")"
Range("B11").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""TStatppA32""", ""32!D11""")"
Range("B12").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CValueppA32""", ""32!D12""")"
Range("B13").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""hdfA32""", ""32!D13""")"
Range("B14").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuedfA32""", ""32!D14""")"
Range("B15").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""tStatdfA32""", ""32!D15""")"
Range("B16").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""cValuedfA32""", ""32!D16""")"
Range("B17").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HppB32""", ""32!D17""")"
Range("B18").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""PValueppB32""", ""32!D18""")"
Range("B19").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""TStatppB32""", ""32!d19""")"
Range("B20").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CValueppB32""", ""32!d20""")"
Range("B21").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""hdfB32""", ""32!d21""")"
Range("B22").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuedfB32""", ""32!d22""")"
Range("B23").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""tStatdfB32""", ""32!d23""")"
Range("B24").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""cValuedfB32""", ""32!d24""")"
Range("B25").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CorrA32""", ""32!d25""")"
Range("B26").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuecorrA32""", ""32!d26""")"
Range("B27").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatcorrA32""", ""32!d27""")"
Range("B28").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValuecorrA32""", ""32!d28""")"
Range("B29").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HA32""", ""32!d29""")"

Range("B30").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValueA32""", ""32!d30""")"
Range("B31").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatA32""", ""32!d31""")"
Range("B32").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValueA32""", ""32!d32""")"
Range("B33").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""P32""", ""32!d33""")"
Range("B34").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""DW32""", ""32!d34""")"
Range("B35").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CorrB32""", ""32!d35""")"
Range("B36").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuecorrB32""", ""32!d36""")"
Range("B37").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatcorrB32""", ""32!d37""")"
Range("B38").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValuecorrB32""", ""32!d38""")"
Range("B39").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HB32""", ""32!d39""")"
Range("B40").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValueB32""", ""32!d40""")"
Range("B41").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatB32""", ""32!d41""")"
Range("B42").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValueB32""", ""32!d42""")"
Range("B43").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""T""", ""32!d43""")"
Range("B44").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""T1""", ""32!d44""")"
Range("B45").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""AIC32""", ""32!d45""")"
Range("B46").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""BIC32""", ""32!d46""")"
Range("B47").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""T2""", ""32!d47""")"
Range("B48").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseA32""", ""32!d48""")"
Range("B49").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseB32""", ""32!d49""")"
Range("B50").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseC32""", ""32!d50""")"
Range("B51").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseD32""", ""32!d51""")"
Range("B52").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseE32""", ""32!d52""")"
Range("B53").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseF32""", ""32!d53""")"
Range("B54").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseG32""", ""32!d54""")"
Range("B55").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseH32""", ""32!d55""")"
Range("B56").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseI32""", ""32!d56""")"
Range("B57").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseJ32""", ""32!d57""")"
Range("B58").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeA32""", ""32!d58""")"
Range("B59").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeB32""", ""32!d59""")"
Range("B60").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeC32""", ""32!d60""")"
Range("B61").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeD32""", ""32!d61""")"
Range("B62").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeE32""", ""32!d62""")"
Range("B63").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeF32""", ""32!d63""")"
Range("B64").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeG32""", ""32!d64""")"
Range("B65").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeH32""", ""32!d65""")"
Range("B66").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeI32""", ""32!d66""")"
Range("B67").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeJ32""", ""32!d67""")"
Range("B68").Select

Sheets("33").Select

Range("B1").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""Hpp33""", ""33!D1""")"
Range("B2").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""PValuepp33""", ""33!D2""")"
Range("B3").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""TStatpp33""", ""33!D3""")"
Range("B4").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CValuepp33""", ""33!D4""")"
Range("B5").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""hdf33""", ""33!D5""")"
Range("B6").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuedf33""", ""33!D6""")"
Range("B7").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""tStatdf33""", ""33!D7""")"
Range("B8").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""cValuedf33""", ""33!D8""")"
Range("B9").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HppA33""", ""33!D9""")"
Range("B10").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""PValueppA33""", ""33!D10""")"
Range("B11").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""TStatppA33""", ""33!D11""")"
Range("B12").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CValueppA33""", ""33!D12""")"

Range("B13").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""hdfA33""", ""33!D13""")"
Range("B14").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuedfA33""", ""33!D14""")"
Range("B15").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""tStatdfA33""", ""33!D15""")"
Range("B16").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""cValuedfA33""", ""33!D16""")"
Range("B17").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HppB33""", ""33!D17""")"
Range("B18").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""PValueppB33""", ""33!D18""")"
Range("B19").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""TStatppB33""", ""33!d19""")"
Range("B20").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CValueppB33""", ""33!d20""")"
Range("B21").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""hdfB33""", ""33!d21""")"
Range("B22").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuedfB33""", ""33!d22""")"
Range("B23").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""tStatdfB33""", ""33!d23""")"
Range("B24").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""cValuedfB33""", ""33!d24""")"
Range("B25").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CorrA33""", ""33!d25""")"
Range("B26").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuecorrA33""", ""33!d26""")"
Range("B27").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatcorrA33""", ""33!d27""")"
Range("B28").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValuecorrA33""", ""33!d28""")"
Range("B29").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HA33""", ""33!d29""")"
Range("B30").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValueA33""", ""33!d30""")"
Range("B31").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatA33""", ""33!d31""")"
Range("B32").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValueA33""", ""33!d32""")"
Range("B33").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""P33""", ""33!d33""")"
Range("B34").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""DW33""", ""33!d34""")"
Range("B35").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CorrB33""", ""33!d35""")"
Range("B36").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuecorrB33""", ""33!d36"")"
Range("B37").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatcorrB33""", ""33!d37"")"
Range("B38").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValuecorrB33""", ""33!d38"")"
Range("B39").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HB33""", ""33!d39"")"
Range("B40").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValueB33""", ""33!d40"")"
Range("B41").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatB33""", ""33!d41"")"
Range("B42").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValueB33""", ""33!d42"")"
Range("B43").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""T""", ""33!d43"")"
Range("B44").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""T1""", ""33!d44"")"
Range("B45").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""AIC33""", ""33!d45"")"
Range("B46").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""BIC33""", ""33!d46"")"
Range("B47").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""T2""", ""33!d47"")"
Range("B48").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseA33""", ""33!d48"")"
Range("B49").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseB33""", ""33!d49"")"
Range("B50").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseC33""", ""33!d50"")"
Range("B51").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseD33""", ""33!d51"")"
Range("B52").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseE33""", ""33!d52"")"
Range("B53").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseF33""", ""33!d53"")"
Range("B54").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseG33""", ""33!d54"")"
Range("B55").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseH33""", ""33!d55"")"
Range("B56").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseI33""", ""33!d56"")"
Range("B57").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseJ33""", ""33!d57"")"
Range("B58").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeA33""", ""33!d58"")"
Range("B59").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeB33""", ""33!d59"")"
Range("B60").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeC33""", ""33!d60"")"
Range("B61").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeD33""", ""33!d61"")"

```
Range("B62").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeE33""", ""33!d62"")"
Range("B63").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeF33""", ""33!d63"")"
Range("B64").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeG33""", ""33!d64"")"
Range("B65").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeH33""", ""33!d65"")"
Range("B66").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeI33""", ""33!d66"")"
Range("B67").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeJ33""", ""33!d67"")"
Range("B68").Select
Sheets("34").Select
```

```
Range("B1").Select
```

```
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""Hpp34""", ""34!D1"")"
Range("B2").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""PValuepp34""", ""34!D2"")"
Range("B3").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""TStatpp34""", ""34!D3"")"
Range("B4").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CValuepp34""", ""34!D4"")"
Range("B5").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""hdf34""", ""34!D5"")"
Range("B6").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuedf34""", ""34!D6"")"
Range("B7").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""tStatdf34""", ""34!D7"")"
Range("B8").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""cValuedf34""", ""34!D8"")"
Range("B9").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HppA34""", ""34!D9"")"
Range("B10").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""PValueppA34""", ""34!D10"")"
Range("B11").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""TStatppA34""", ""34!D11"")"
Range("B12").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CValueppA34""", ""34!D12"")"
Range("B13").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""hdfA34""", ""34!D13"")"
Range("B14").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuedfA34""", ""34!D14"")"
Range("B15").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""tStatdfA34""", ""34!D15"")"
Range("B16").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""cValuedfA34""", ""34!D16"")"
Range("B17").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HppB34""", ""34!D17"")"
Range("B18").Select
```

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""PValueppB34""", ""34!D18""")"
Range("B19").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""TStatppB34""", ""34!d19""")"
Range("B20").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CValueppB34""", ""34!d20""")"
Range("B21").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""hdfB34""", ""34!d21""")"
Range("B22").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuedfB34""", ""34!d22""")"
Range("B23").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""tStatdfB34""", ""34!d23""")"
Range("B24").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""cValuedfB34""", ""34!d24""")"
Range("B25").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CorrA34""", ""34!d25""")"
Range("B26").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuecorrA34""", ""34!d26""")"
Range("B27").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatcorrA34""", ""34!d27""")"
Range("B28").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValuecorrA34""", ""34!d28""")"
Range("B29").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HA34""", ""34!d29""")"
Range("B30").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValueA34""", ""34!d30""")"
Range("B31").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatA34""", ""34!d31""")"
Range("B32").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValueA34""", ""34!d32""")"
Range("B33").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""P34""", ""34!d33""")"
Range("B34").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""DW34""", ""34!d34""")"
Range("B35").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CorrB34""", ""34!d35""")"
Range("B36").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuecorrB34""", ""34!d36""")"
Range("B37").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatcorrB34""", ""34!d37""")"
Range("B38").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValuecorrB34""", ""34!d38""")"
Range("B39").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HB34""", ""34!d39""")"
Range("B40").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValueB34""", ""34!d40""")"
Range("B41").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatB34""", ""34!d41""")"
Range("B42").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValueB34""", ""34!d42""")"
Range("B43").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""T""", ""34!d43""")"

Range("B44").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""T1"" , ""34!d44"")"
Range("B45").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""AIC34"" , ""34!d45"")"
Range("B46").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""BIC34"" , ""34!d46"")"

Range("B47").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix(""T2"" , ""34!d47"")"
Range("B48").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""mseA34"" , ""34!d48"")"

Range("B49").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix(""mseB34"" , ""34!d49"")"
Range("B50").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""mseC34"" , ""34!d50"")"
Range("B51").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""mseD34"" , ""34!d51"")"
Range("B52").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""mseE34"" , ""34!d52"")"
Range("B53").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""mseF34"" , ""34!d53"")"
Range("B54").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""mseG34"" , ""34!d54"")"
Range("B55").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""mseH34"" , ""34!d55"")"
Range("B56").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""mseI34"" , ""34!d56"")"
Range("B57").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""mseJ34"" , ""34!d57"")"
Range("B58").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""maeA34"" , ""34!d58"")"
Range("B59").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""maeB34"" , ""34!d59"")"
Range("B60").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""maeC34"" , ""34!d60"")"
Range("B61").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""maeD34"" , ""34!d61"")"
Range("B62").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""maeE34"" , ""34!d62"")"
Range("B63").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""maeF34"" , ""34!d63"")"
Range("B64").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""maeG34"" , ""34!d64"")"
Range("B65").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""maeH34"" , ""34!d65"")"
Range("B66").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""maeI34"" , ""34!d66"")"
Range("B67").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""maeJ34"" , ""34!d67"")"

```

Range("B68").Select

End Sub

Sub vonpiter3()

" vonpiter3 Macro

' Macro gravada em 12/02/2009 por JOSÉ DE PIETRO NETO

' Atalho do teclado: Ctrl+w

'Sheets("24a").Select

Range("B1").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""Hpp24a""", ""24a!D1""")"
Range("B2").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""PValuepp24a""", ""24a!D2""")"

Range("B3").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""TStatpp24a""", ""24a!D3""")"
Range("B4").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CValuepp24a""", ""24a!D4""")"

Range("B5").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""hdf24a""", ""24a!D5""")"
Range("B6").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuedf24a""", ""24a!D6""")"
Range("B7").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""tStatdf24a""", ""24a!D7""")"
Range("B8").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""cValuedf24a""", ""24a!D8""")"
Range("B9").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HppA24a""", ""24a!D9""")"
Range("B10").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""PValueppA24a""", ""24a!D10""")"
Range("B11").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""TStatppA24a""", ""24a!D11""")"
Range("B12").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CValueppA24a""", ""24a!D12""")"
Range("B13").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""hdfA24a""", ""24a!D13""")"
Range("B14").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuedfA24a""", ""24a!D14""")"
Range("B15").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""tStatdfA24a""", ""24a!D15""")"
Range("B16").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""cValuedfA24a""", ""24a!D16""")"
Range("B17").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HppB24a""", ""24a!D17""")"
Range("B18").Select

```

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""PValueppB24a""", ""24a!D18""")"
Range("B19").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""TStatppB24a""", ""24a!d19""")"
Range("B20").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CValueppB24a""", ""24a!d20""")"
Range("B21").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""hdfB24a""", ""24a!d21""")"
Range("B22").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuedfB24a""", ""24a!d22""")"
Range("B23").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""tStatdfB24a""", ""24a!d23""")"
Range("B24").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""cValuedfB24a""", ""24a!d24""")"
Range("B25").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CorrA24a""", ""24a!d25""")"
Range("B26").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuecorrA24a""", ""24a!d26""")"
Range("B27").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatcorrA24a""", ""24a!d27""")"
Range("B28").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValuecorrA24a""", ""24a!d28""")"
Range("B29").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HA24a""", ""24a!d29""")"
Range("B30").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValueA24a""", ""24a!d30""")"

Range("B31").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatA24a""", ""24a!d31""")"
Range("B32").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValueA24a""", ""24a!d32""")"

Range("B33").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""P24a""", ""24a!d33""")"
Range("B34").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""DW24a""", ""24a!d34""")"
Range("B35").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CorrB24a""", ""24a!d35""")"
Range("B36").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuecorrB24a""", ""24a!d36""")"
Range("B37").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatcorrB24a""", ""24a!d37""")"
Range("B38").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValuecorrB24a""", ""24a!d38""")"
Range("B39").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HB24a""", ""24a!d39""")"
Range("B40").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValueB24a""", ""24a!d40""")"
Range("B41").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatB24a""", ""24a!d41""")"
Range("B42").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValueB24a""", ""24a!d42""")"

Range("B43").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""T"" , ""24a!d43"")"
Range("B44").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""T1"" , ""24a!d44"")"
Range("B45").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""AIC24a"" , ""24a!d45"")"
Range("B46").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""BIC24a"" , ""24a!d46"")"
Range("B47").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""T2"" , ""24a!d47"")"
Range("B48").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""mseA24a"" , ""24a!d48"")"
Range("B49").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""mseB24a"" , ""24a!d49"")"
Range("B50").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""mseC24a"" , ""24a!d50"")"
Range("B51").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""mseD24a"" , ""24a!d51"")"
Range("B52").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""mseE24a"" , ""24a!d52"")"
Range("B53").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""mseF24a"" , ""24a!d53"")"
Range("B54").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""mseG24a"" , ""24a!d54"")"
Range("B56").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""mseI24a"" , ""24a!d56"")"
Range("B57").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""mseJ24a"" , ""24a!d57"")"
Range("B58").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""maeA24a"" , ""24a!d58"")"
Range("B55").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""mseH24a"" , ""24a!d55"")"
Range("B59").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""maeB24a"" , ""24a!d59"")"
Range("B60").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""maeC24a"" , ""24a!d60"")"

Range("B61").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""maeD24a"" , ""24a!d61"")"
Range("B62").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""maeE24a"" , ""24a!d62"")"
Range("B63").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""maeF24a"" , ""24a!d63"")"
Range("B64").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""maeG24a"" , ""24a!d64"")"
Range("B65").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""maeH24a"" , ""24a!d65"")"
Range("B66").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""maeI24a"" , ""24a!d66"")"
Range("B67").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""maeJ24a"" , ""24a!d67"")"

Range("B68").Select

Sheets("31a").Select

Range("B1").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""Hpp31a""", ""31a!D1""")"

Range("B2").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""PValuepp31a""", ""31a!D2""")"

Range("B3").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""TStatpp31a""", ""31a!D3""")"

Range("B4").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CValuepp31a""", ""31a!D4""")"

Range("B5").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""hdf31a""", ""31a!D5""")"

Range("B6").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuedf31a""", ""31a!D6""")"

Range("B7").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""tStatdf31a""", ""31a!D7""")"

Range("B8").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""cValuedf31a""", ""31a!D8""")"

Range("B9").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HppA31a""", ""31a!D9""")"

Range("B10").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""PValueppA31a""", ""31a!D10""")"

Range("B11").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""TStatppA31a""", ""31a!D11""")"

Range("B12").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CValueppA31a""", ""31a!D12""")"

Range("B13").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""hdfA31a""", ""31a!D13""")"

Range("B14").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuedfA31a""", ""31a!D14""")"

Range("B15").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""tStatdfA31a""", ""31a!D15""")"

Range("B16").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""cValuedfA31a""", ""31a!D16""")"

Range("B17").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HppB31a""", ""31a!D17""")"

Range("B18").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""PValueppB31a""", ""31a!D18""")"

Range("B19").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""TStatppB31a""", ""31a!d19""")"

Range("B20").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CValueppB31a""", ""31a!d20""")"

Range("B21").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""hdfB31a""", ""31a!d21""")"

Range("B22").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuedfB31a""", ""31a!d22""")"

Range("B23").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""tStatdfB31a""", ""31a!d23""")"
Range("B24").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""cValuedfB31a""", ""31a!d24""")"
Range("B25").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CorrA31a""", ""31a!d25""")"
Range("B26").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuecorrA31a""", ""31a!d26""")"
Range("B27").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatcorrA31a""", ""31a!d27""")"
Range("B28").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValuecorrA31a""", ""31a!d28""")"
Range("B29").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HA31a""", ""31a!d29""")"
Range("B30").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValueA31a""", ""31a!d30""")"
Range("B31").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatA31a""", ""31a!d31""")"
Range("B32").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValueA31a""", ""31a!d32""")"
Range("B33").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""P31a""", ""31a!d33""")"
Range("B34").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""DW31a""", ""31a!d34""")"
Range("B35").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CorrB31a""", ""31a!d35""")"
Range("B36").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuecorrB31a""", ""31a!d36""")"
Range("B37").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatcorrB31a""", ""31a!d37""")"
Range("B38").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValuecorrB31a""", ""31a!d38""")"
Range("B39").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HB31a""", ""31a!d39""")"
Range("B40").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValueB31a""", ""31a!d40""")"
Range("B41").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatB31a""", ""31a!d41""")"
Range("B42").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValueB31a""", ""31a!d42""")"
Range("B43").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""T""", ""31a!d43""")"
Range("B44").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""T1""", ""31a!d44""")"
Range("B45").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""AIC31a""", ""31a!d45""")"
Range("B46").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""BIC31a""", ""31a!d46""")"
Range("B47").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""T2""", ""31a!d47""")"
Range("B49").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseB31a""", ""31a!d49""")"

```
Range("B50").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseC31a""", ""31a!d50""")"
Range("B51").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseD31a""", ""31a!d51""")"
Range("B52").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseE31a""", ""31a!d52""")"
Range("B53").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseF31a""", ""31a!d53""")"
Range("B54").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseG31a""", ""31a!d54""")"
Range("B55").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseH31a""", ""31a!d55""")"
Range("B56").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseI31a""", ""31a!d56""")"
Range("B48").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseA31a""", ""31a!d48""")"
Range("B57").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseJ31a""", ""31a!d57""")"
Range("B58").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeA31a""", ""31a!d58""")"
Range("B59").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeB31a""", ""31a!d59""")"
Range("B60").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeC31a""", ""31a!d60""")"
Range("B61").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeD31a""", ""31a!d61""")"
Range("B62").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeE31a""", ""31a!d62""")"
Range("B63").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeF31a""", ""31a!d63""")"
Range("B64").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeG31a""", ""31a!d64""")"
Range("B65").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeH31a""", ""31a!d65""")"
Range("B66").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeI31a""", ""31a!d66""")"
Range("B67").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeJ31a""", ""31a!d67""")"
Range("B68").Select
```

```
Sheets("32a").Select
```

```
Range("B1").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""Hpp32a""", ""32a!D1""")"
Range("B2").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""PValuepp32a""", ""32a!D2""")"
Range("B3").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""TStatpp32a""", ""32a!D3""")"
Range("B4").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CValuepp32a""", ""32a!D4""")"
Range("B5").Select
```

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""hdf32a""", ""32a!D5""")"
Range("B6").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuedf32a""", ""32a!D6""")"
Range("B7").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""tStatdf32a""", ""32a!D7""")"
Range("B8").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""cValuedf32a""", ""32a!D8""")"
Range("B9").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HppA32a""", ""32a!D9""")"
Range("B10").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""PValueppA32a""", ""32a!D10""")"
Range("B11").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""TStatppA32a""", ""32a!D11""")"
Range("B12").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CValueppA32a""", ""32a!D12""")"
Range("B13").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""hdfA32a""", ""32a!D13""")"
Range("B14").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuedfA32a""", ""32a!D14""")"
Range("B15").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""tStatdfA32a""", ""32a!D15""")"
Range("B16").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""cValuedfA32a""", ""32a!D16""")"
Range("B17").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HppB32a""", ""32a!D17""")"
Range("B18").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""PValueppB32a""", ""32a!D18""")"
Range("B19").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""TStatppB32a""", ""32a!d19""")"
Range("B20").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CValueppB32a""", ""32a!d20""")"
Range("B21").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""hdfB32a""", ""32a!d21""")"
Range("B22").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuedfB32a""", ""32a!d22""")"
Range("B23").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""tStatdfB32a""", ""32a!d23""")"
Range("B24").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""cValuedfB32a""", ""32a!d24""")"
Range("B25").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CorrA32a""", ""32a!d25""")"
Range("B26").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuecorrA32a""", ""32a!d26""")"
Range("B27").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatcorrA32a""", ""32a!d27""")"
Range("B28").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValuecorrA32a""", ""32a!d28""")"
Range("B29").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HA32a""", ""32a!d29""")"
Range("B30").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValueA32a""", ""32a!d30""")"

Range("B31").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(StatA32a,32a!d31)"
Range("B32").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(CriticalValueA32a,32a!d32)"
Range("B33").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(P32a,32a!d33)"
Range("B34").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(DW32a,32a!d34)"
Range("B35").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(CorrB32a,32a!d35)"
Range("B36").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(pValuecorrB32a,32a!d36)"
Range("B37").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(StatcorrB32a,32a!d37)"
Range("B39").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(HB32a,32a!d39)"
Range("B38").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(CriticalValuecorrB32a,32a!d38)"
Range("B40").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(pValueB32a,32a!d40)"
Range("B41").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(StatB32a,32a!d41)"
Range("B42").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(CriticalValueB32a,32a!d42)"
Range("B43").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(T,32a!d43)"
Range("B44").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(T1,32a!d44)"
Range("B45").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(AIC32a,32a!d45)"
Range("B46").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(BIC32a,32a!d46)"
Range("B47").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(T2,32a!d47)"
Range("B48").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(mseA32a,32a!d48)"
Range("B49").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(mseB32a,32a!d49)"
Range("B50").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(mseC32a,32a!d50)"
Range("B51").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(mseD32a,32a!d51)"
Range("B52").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(mseE32a,32a!d52)"
Range("B53").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(mseF32a,32a!d53)"
Range("B54").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(mseG32a,32a!d54)"
Range("B55").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(mseH32a,32a!d55)"
Range("B56").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseI32a""", ""32a!d56""")"
Range("B57").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseJ32a""", ""32a!d57""")"
Range("B58").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeA32a""", ""32a!d58""")"
Range("B59").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeB32a""", ""32a!d59""")"
Range("B60").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeC32a""", ""32a!d60""")"
Range("B61").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeD32a""", ""32a!d61""")"
Range("B62").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeE32a""", ""32a!d62""")"
Range("B63").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeF32a""", ""32a!d63""")"
Range("B64").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeG32a""", ""32a!d64""")"
Range("B65").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeH32a""", ""32a!d65""")"
Range("B66").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeI32a""", ""32a!d66""")"
Range("B67").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeJ32a""", ""32a!d67""")"
Range("B68").Select

Sheets("33a").Select

Range("B1").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""Hpp33a""", ""33a!D1""")"
Range("B2").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""PValuepp33a""", ""33a!D2""")"
Range("B3").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""TStatpp33a""", ""33a!D3""")"
Range("B4").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CValuepp33a""", ""33a!D4""")"
Range("B5").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""hdf33a""", ""33a!D5""")"
Range("B6").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuedf33a""", ""33a!D6""")"
Range("B7").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""tStatdf33a""", ""33a!D7""")"
Range("B8").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""cValuedf33a""", ""33a!D8""")"
Range("B9").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HppA33a""", ""33a!D9""")"
Range("B10").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""PValueppA33a""", ""33a!D10""")"
Range("B11").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""TStatppA33a""", ""33a!D11""")"
Range("B12").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CValueppA33a""", ""33a!D12""")"
Range("B13").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""hdfA33a""", ""33a!D13""")"
Range("B14").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuedfA33a""", ""33a!D14""")"
Range("B15").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""tStatdfA33a""", ""33a!D15""")"
Range("B16").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""cValuedfA33a""", ""33a!D16""")"
Range("B17").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HppB33a""", ""33a!D17""")"
Range("B18").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""PValueppB33a""", ""33a!D18""")"
Range("B19").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""TStatppB33a""", ""33a!d19""")"
Range("B20").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CValueppB33a""", ""33a!d20""")"
Range("B21").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""hdfB33a""", ""33a!d21""")"
Range("B22").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuedfB33a""", ""33a!d22""")"
Range("B23").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""tStatdfB33a""", ""33a!d23""")"
Range("B24").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""cValuedfB33a""", ""33a!d24""")"
Range("B25").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CorrA33a""", ""33a!d25""")"
Range("B26").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuecorrA33a""", ""33a!d26""")"
Range("B27").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatcorrA33a""", ""33a!d27""")"
Range("B28").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValuecorrA33a""", ""33a!d28""")"
Range("B29").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HA33a""", ""33a!d29""")"
Range("B30").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValueA33a""", ""33a!d30""")"
Range("B31").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatA33a""", ""33a!d31""")"
Range("B32").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValueA33a""", ""33a!d32""")"
Range("B33").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""P33a""", ""33a!d33""")"
Range("B35").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CorrB33a""", ""33a!d35""")"
Range("B36").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuecorrB33a""", ""33a!d36""")"
Range("B37").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatcorrB33a""", ""33a!d37""")"
Range("B39").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HB33a""", ""33a!d39""")"

Range("B40").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValueB33a""", ""33a!d40""")"
Range("B41").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatB33a""", ""33a!d41""")"
Range("B42").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValueB33a""", ""33a!d42""")"
Range("B43").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""T""", ""33a!d43""")"
Range("B34").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""DW33a""", ""33a!d34""")"
Range("B38").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValuecorrB33a""", ""33a!d38""")"
Range("B39").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HB33a""", ""33a!d39""")"
Range("B44").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""T1""", ""33a!d44""")"
Range("B45").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""AIC33a""", ""33a!d45""")"
Range("B46").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""BIC33a""", ""33a!d46""")"
Range("B47").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""T2""", ""33a!d47""")"
Range("B48").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseA33a""", ""33a!d48""")"
Range("B49").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseB33a""", ""33a!d49""")"
Range("B50").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseC33a""", ""33a!d50""")"
Range("B51").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseD33a""", ""33a!d51""")"
Range("B52").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseE33a""", ""33a!d52""")"
Range("B53").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseF33a""", ""33a!d53""")"
Range("B54").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseG33a""", ""33a!d54""")"
Range("B55").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseH33a""", ""33a!d55""")"
Range("B56").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseI33a""", ""33a!d56""")"
Range("B57").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseJ33a""", ""33a!d57""")"
Range("B58").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeA33a""", ""33a!d58""")"
Range("B59").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeB33a""", ""33a!d59""")"
Range("B60").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeC33a""", ""33a!d60""")"
Range("B61").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeD33a""", ""33a!d61""")"
Range("B62").Select

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ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeE33a""", ""33a!d62""")"
Range("B63").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeF33a""", ""33a!d63""")"
Range("B64").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeG33a""", ""33a!d64""")"
Range("B65").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeH33a""", ""33a!d65""")"
Range("B66").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeI33a""", ""33a!d66""")"
Range("B67").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeJ33a""", ""33a!d67""")"
Range("B68").Select

Sheets("34a").Select

Range("B1").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""Hpp34a""", ""34a!D1""")"
Range("B2").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""PValuepp34a""", ""34a!D2""")"
Range("B3").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""TStatpp34a""", ""34a!D3""")"
Range("B4").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CValuepp34a""", ""34a!D4""")"
Range("B5").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""hdf34a""", ""34a!D5""")"
Range("B6").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuedf34a""", ""34a!D6""")"
Range("B7").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""tStatdf34a""", ""34a!D7""")"
Range("B8").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""cValuedf34a""", ""34a!D8""")"
Range("B9").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HppA34a""", ""34a!D9""")"
Range("B10").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""PValueppA34a""", ""34a!D10""")"
Range("B11").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""TStatppA34a""", ""34a!D11""")"
Range("B12").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CValueppA34a""", ""34a!D12""")"
Range("B13").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""hdfA34a""", ""34a!D13""")"
Range("B14").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuedfA34a""", ""34a!D14""")"
Range("B15").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""tStatdfA34a""", ""34a!D15""")"
Range("B16").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""cValuedfA34a""", ""34a!D16""")"
Range("B17").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HppB34a""", ""34a!D17""")"
Range("B18").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""PValueppB34a""", ""34a!D18""")"
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Range("B19").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""TStatppB34a""", ""34a!d19""")"
Range("B20").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CValueppB34a""", ""34a!d20""")"
Range("B21").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""hdfB34a""", ""34a!d21""")"
Range("B22").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuedfB34a""", ""34a!d22""")"
Range("B23").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""tStatdfB34a""", ""34a!d23""")"
Range("B24").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""cValuedfB34a""", ""34a!d24""")"
Range("B25").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CorrA34a""", ""34a!d25""")"
Range("B26").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuecorrA34a""", ""34a!d26""")"
Range("B27").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatcorrA34a""", ""34a!d27""")"
Range("B28").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValuecorrA34a""", ""34a!d28""")"
Range("B29").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HA34a""", ""34a!d29""")"
Range("B30").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValueA34a""", ""34a!d30""")"
Range("B31").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatA34a""", ""34a!d31""")"

Range("B32").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValueA34a""", ""34a!d32""")"
Range("B33").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""P34a""", ""34a!d33""")"
Range("B34").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""DW34a""", ""34a!d34""")"
Range("B35").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CorrB34a""", ""34a!d35""")"
Range("B36").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuecorrB34a""", ""34a!d36""")"
Range("B37").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatcorrB34a""", ""34a!d37""")"
Range("B38").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValuecorrB34a""", ""34a!d38""")"
Range("B39").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HB34a""", ""34a!d39""")"
Range("B40").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValueB34a""", ""34a!d40""")"
Range("B41").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatB34a""", ""34a!d41""")"
Range("B42").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValueB34a""", ""34a!d42""")"
Range("B43").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""T""", ""34a!d43""")"

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Range("B44").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""T1"" , ""34a!d44"")"
Range("B45").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""AIC34a"" , ""34a!d45"")"
Range("B46").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""BIC34a"" , ""34a!d46"")"
Range("B47").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""T2"" , ""34a!d47"")"
Range("B48").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""mseA34a"" , ""34a!d48"")"
Range("B49").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""mseB34a"" , ""34a!d49"")"
Range("B50").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""mseC34a"" , ""34a!d50"")"
Range("B51").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""mseD34a"" , ""34a!d51"")"
Range("B52").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""mseE34a"" , ""34a!d52"")"
Range("B53").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""mseF34a"" , ""34a!d53"")"
Range("B54").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""mseG34a"" , ""34a!d54"")"
Range("B55").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""mseH34a"" , ""34a!d55"")"
Range("B56").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""mseI34a"" , ""34a!d56"")"
Range("B57").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""mseJ34a"" , ""34a!d57"")"
Range("B58").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""maeA34a"" , ""34a!d58"")"
Range("B59").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""maeB34a"" , ""34a!d59"")"
Range("B60").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""maeC34a"" , ""34a!d60"")"
Range("B61").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""maeD34a"" , ""34a!d61"")"
Range("B62").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""maeE34a"" , ""34a!d62"")"
Range("B63").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""maeF34a"" , ""34a!d63"")"
Range("B64").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""maeG34a"" , ""34a!d64"")"
Range("B65").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""maeH34a"" , ""34a!d65"")"
Range("B66").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""maeI34a"" , ""34a!d66"")"
Range("B67").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""maeJ34a"" , ""34a!d67"")"
Range("B68").Select

Sheets("41a").Select

```
Range("B1").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""Hpp41a""", ""41a!D1"")"
Range("B2").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""PValuepp41a""", ""41a!D2"")"
Range("B3").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""TStatpp41a""", ""41a!D3"")"
Range("B4").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CValuepp41a""", ""41a!D4"")"
Range("B5").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""hdf41a""", ""41a!D5"")"
Range("B6").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuedf41a""", ""41a!D6"")"
Range("B7").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""tStatdf41a""", ""41a!D7"")"
Range("B8").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""cValuedf41a""", ""41a!D8"")"
Range("B9").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HppA41a""", ""41a!D9"")"
Range("B10").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""PValueppA41a""", ""41a!D10"")"
Range("B11").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""TStatppA41a""", ""41a!D11"")"
Range("B12").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CValueppA41a""", ""41a!D12"")"
Range("B13").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""hdfA41a""", ""41a!D13"")"
Range("B14").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuedfA41a""", ""41a!D14"")"
Range("B15").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""tStatdfA41a""", ""41a!D15"")"
Range("B16").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""cValuedfA41a""", ""41a!D16"")"
Range("B17").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HppB41a""", ""41a!D17"")"
Range("B18").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""PValueppB41a""", ""41a!D18"")"
Range("B19").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""TStatppB41a""", ""41a!d19"")"
Range("B20").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CValueppB41a""", ""41a!d20"")"
Range("B21").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""hdfB41a""", ""41a!d21"")"
Range("B22").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuedfB41a""", ""41a!d22"")"
Range("B23").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""tStatdfB41a""", ""41a!d23"")"
Range("B24").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""cValuedfB41a""", ""41a!d24"")"
Range("B25").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CorrA41a""", ""41a!d25"")"
```

Range("B26").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuecorrA41a""", ""41a!d26""")"
Range("B28").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValuecorrA41a""", ""41a!d28""")"
Range("B29").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HA41a""", ""41a!d29""")"
Range("B30").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValueA41a""", ""41a!d30""")"
Range("B31").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatA41a""", ""41a!d31""")"
Range("B32").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValueA41a""", ""41a!d32""")"
Range("B33").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""P41a""", ""41a!d33""")"
Range("B34").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""DW41a""", ""41a!d34""")"
Range("B35").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CorrB41a""", ""41a!d35""")"
Range("B37").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatcorrB41a""", ""41a!d37""")"
Range("B38").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValuecorrB41a""", ""41a!d38""")"
Range("B39").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HB41a""", ""41a!d39""")"
Range("B40").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValueB41a""", ""41a!d40""")"
Range("B41").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatB41a""", ""41a!d41""")"
Range("B42").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValueB41a""", ""41a!d42""")"
Range("B43").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""T""", ""41a!d43""")"
Range("B44").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""T1""", ""41a!d44""")"
Range("B45").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""AIC41a""", ""41a!d45""")"
Range("B46").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""BIC41a""", ""41a!d46""")"
Range("B47").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""T2""", ""41a!d47""")"
Range("B48").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseA41a""", ""41a!d48""")"
Range("B49").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseB41a""", ""41a!d49""")"
Range("B27").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatcorrA41a""", ""41a!d27""")"
Range("B36").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuecorrB41a""", ""41a!d36""")"
Range("B37").Select
Range("B50").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseC41a""", ""41a!d50""")"

Range("B51").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseD41a""", ""41a!d51""")"
Range("B52").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseE41a""", ""41a!d52""")"
Range("B53").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseF41a""", ""41a!d53""")"
Range("B54").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseG41a""", ""41a!d54""")"
Range("B55").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseH41a""", ""41a!d55""")"
Range("B56").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseI41a""", ""41a!d56""")"
Range("B57").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseJ41a""", ""41a!d57""")"
Range("B58").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeA41a""", ""41a!d58""")"
Range("B59").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeB41a""", ""41a!d59""")"
Range("B60").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeC41a""", ""41a!d60""")"
Range("B61").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeD41a""", ""41a!d61""")"
Range("B62").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeE41a""", ""41a!d62""")"
Range("B63").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeF41a""", ""41a!d63""")"
Range("B64").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeG41a""", ""41a!d64""")"
Range("B65").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeH41a""", ""41a!d65""")"
Range("B66").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeI41a""", ""41a!d66""")"
Range("B67").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeJ41a""", ""41a!d67""")"
Range("B68").Select

Sheets("42a").Select

Range("B1").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""Hpp42a""", ""42a!D1""")"
Range("B2").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""PValuepp42a""", ""42a!D2""")"
Range("B3").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""TStatpp42a""", ""42a!D3""")"
Range("B4").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CValuepp42a""", ""42a!D4""")"
Range("B5").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""hdf42a""", ""42a!D5""")"
Range("B6").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuedf42a""", ""42a!D6""")"

Range("B7").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""tStatdf42a""", ""42a!D7""")"
Range("B8").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""cValuedf42a""", ""42a!D8""")"
Range("B9").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HppA42a""", ""42a!D9""")"
Range("B10").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""PValueppA42a""", ""42a!D10""")"
Range("B11").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""TStatppA42a""", ""42a!D11""")"
Range("B12").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CValueppA42a""", ""42a!D12""")"
Range("B13").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""hdfA42a""", ""42a!D13""")"
Range("B14").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuedfA42a""", ""42a!D14""")"
Range("B15").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""tStatdfA42a""", ""42a!D15""")"
Range("B16").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""cValuedfA42a""", ""42a!D16""")"
Range("B17").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HppB42a""", ""42a!D17""")"
Range("B18").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""PValueppB42a""", ""42a!D18""")"
Range("B19").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""TStatppB42a""", ""42a!d19""")"
Range("B20").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CValueppB42a""", ""42a!d20""")"
Range("B21").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""hdfB42a""", ""42a!d21""")"
Range("B22").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuedfB42a""", ""42a!d22""")"
Range("B23").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""tStatdfB42a""", ""42a!d23""")"
Range("B24").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""cValuedfB42a""", ""42a!d24""")"
Range("B25").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CorrA42a""", ""42a!d25""")"
Range("B26").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuecorrA42a""", ""42a!d26""")"
Range("B27").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatcorrA42a""", ""42a!d27""")"
Range("B28").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValuecorrA42a""", ""42a!d28""")"
Range("B29").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HA42a""", ""42a!d29""")"
Range("B30").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValueA42a""", ""42a!d30""")"
Range("B31").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatA42a""", ""42a!d31""")"
Range("B32").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValueA42a""", ""42a!d32"")"
Range("B33").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""P42a""", ""42a!d33"")"
Range("B34").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""DW42a""", ""42a!d34"")"
Range("B35").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CorrB42a""", ""42a!d35"")"
Range("B36").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuecorrB42a""", ""42a!d36"")"
Range("B37").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatcorrB42a""", ""42a!d37"")"
Range("B38").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValuecorrB42a""", ""42a!d38"")"
Range("B39").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HB42a""", ""42a!d39"")"
Range("B40").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValueB42a""", ""42a!d40"")"
Range("B41").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatB42a""", ""42a!d41"")"
Range("B42").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValueB42a""", ""42a!d42"")"
Range("B43").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""T""", ""42a!d43"")"
Range("B44").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""T1""", ""42a!d44"")"
Range("B45").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""AIC42a""", ""42a!d45"")"
Range("B46").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""BIC42a""", ""42a!d46"")"
Range("B47").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""T2""", ""42a!d47"")"
Range("B49").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseB42a""", ""42a!d49"")"
Range("B50").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseC42a""", ""42a!d50"")"
Range("B48").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseA42a""", ""42a!d48"")"
Range("B51").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseD42a""", ""42a!d51"")"
Range("B52").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseE42a""", ""42a!d52"")"
Range("B53").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseF42a""", ""42a!d53"")"
Range("B54").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseG42a""", ""42a!d54"")"
Range("B55").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseH42a""", ""42a!d55"")"
Range("B56").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseI42a""", ""42a!d56"")"
Range("B57").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseJ42a""", ""42a!d57"")"

```
Range("B58").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeA42a""", ""42a!d58""")"
Range("B59").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeB42a""", ""42a!d59""")"
Range("B60").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeC42a""", ""42a!d60""")"
Range("B61").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeD42a""", ""42a!d61""")"
Range("B62").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeE42a""", ""42a!d62""")"
Range("B63").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeF42a""", ""42a!d63""")"
Range("B64").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeG42a""", ""42a!d64""")"
Range("B65").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeH42a""", ""42a!d65""")"
Range("B66").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeI42a""", ""42a!d66""")"
Range("B67").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeJ42a""", ""42a!d67""")"
Range("B68").Select
```

```
Sheets("43a").Select
```

```
Range("B1").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""Hpp43a""", ""43a!D1""")"
Range("B2").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""PValuepp43a""", ""43a!D2""")"
Range("B3").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""TStatpp43a""", ""43a!D3""")"
Range("B4").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CValuepp43a""", ""43a!D4""")"
Range("B5").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""hdf43a""", ""43a!D5""")"
Range("B6").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuedf43a""", ""43a!D6""")"
Range("B7").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""tStatdf43a""", ""43a!D7""")"
Range("B8").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""cValuedf43a""", ""43a!D8""")"
Range("B9").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HppA43a""", ""43a!D9""")"
Range("B10").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""PValueppA43a""", ""43a!D10""")"
Range("B11").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""TStatppA43a""", ""43a!D11""")"
Range("B12").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CValueppA43a""", ""43a!D12""")"
Range("B13").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""hdfA43a""", ""43a!D13""")"
Range("B14").Select
```


ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuedfA43a""", ""43a!D14""")"
Range("B15").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""tStatdfA43a""", ""43a!D15""")"
Range("B16").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""cValuedfA43a""", ""43a!D16""")"
Range("B17").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HppB43a""", ""43a!D17""")"
Range("B18").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""PValueppB43a""", ""43a!D18""")"
Range("B19").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""TStatppB43a""", ""43a!d19""")"
Range("B20").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CValueppB43a""", ""43a!d20""")"
Range("B21").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""hdfB43a""", ""43a!d21""")"
Range("B22").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuedfB43a""", ""43a!d22""")"
Range("B23").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""tStatdfB43a""", ""43a!d23""")"
Range("B24").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""cValuedfB43a""", ""43a!d24""")"
Range("B25").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CorrA43a""", ""43a!d25""")"
Range("B26").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuecorrA43a""", ""43a!d26""")"
Range("B27").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatcorrA43a""", ""43a!d27""")"
Range("B28").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValuecorrA43a""", ""43a!d28""")"
Range("B29").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HA43a""", ""43a!d29""")"
Range("B30").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValueA43a""", ""43a!d30""")"
Range("B31").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatA43a""", ""43a!d31""")"
Range("B32").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValueA43a""", ""43a!d32""")"
Range("B33").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""P43a""", ""43a!d33""")"
Range("B34").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""DW43a""", ""43a!d34""")"
Range("B35").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CorrB43a""", ""43a!d35""")"
Range("B36").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuecorrB43a""", ""43a!d36""")"
Range("B37").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatcorrB43a""", ""43a!d37""")"
Range("B38").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValuecorrB43a""", ""43a!d38""")"
Range("B39").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HB43a""", ""43a!d39""")"

Range("B40").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValueB43a""", ""43a!d40""")"
Range("B41").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatB43a""", ""43a!d41""")"
Range("B42").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValueB43a""", ""43a!d42""")"
Range("B43").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""T""", ""43a!d43""")"
Range("B44").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""T1""", ""43a!d44""")"
Range("B45").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""AIC43a""", ""43a!d45""")"
Range("B46").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""BIC43a""", ""43a!d46""")"
Range("B47").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""T2""", ""43a!d47""")"
Range("B48").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseA43a""", ""43a!d48""")"
Range("B49").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseB43a""", ""43a!d49""")"
Range("B50").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseC43a""", ""43a!d50""")"
Range("B51").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseD43a""", ""43a!d51""")"
Range("B52").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseE43a""", ""43a!d52""")"
Range("B53").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseF43a""", ""43a!d53""")"
Range("B54").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseG43a""", ""43a!d54""")"
Range("B55").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseH43a""", ""43a!d55""")"
Range("B56").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseI43a""", ""43a!d56""")"
Range("B57").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseJ43a""", ""43a!d57""")"
Range("B58").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeA43a""", ""43a!d58""")"
Range("B59").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeB43a""", ""43a!d59""")"
Range("B60").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeC43a""", ""43a!d60""")"
Range("B61").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeD43a""", ""43a!d61""")"
Range("B62").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeE43a""", ""43a!d62""")"
Range("B63").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeF43a""", ""43a!d63""")"
Range("B64").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeG43a""", ""43a!d64""")"

```
Range("B65").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeH43a""", ""43a!d65""")"
Range("B66").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeI43a""", ""43a!d66""")"
Range("B67").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeJ43a""", ""43a!d67""")"
Range("B68").Select
```

```
Sheets("44a").Select
```

```
Range("B1").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""Hpp44a""", ""44a!D1""")"
Range("B2").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""PValuepp44a""", ""44a!D2""")"
Range("B3").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""TStatpp44a""", ""44a!D3""")"
Range("B4").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CValuepp44a""", ""44a!D4""")"
Range("B5").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""hdf44a""", ""44a!D5""")"
Range("B6").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuedf44a""", ""44a!D6""")"
Range("B7").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""tStatdf44a""", ""44a!D7""")"
Range("B8").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""cValuedf44a""", ""44a!D8""")"
Range("B9").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HppA44a""", ""44a!D9""")"
Range("B10").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""PValueppA44a""", ""44a!D10""")"
Range("B11").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""TStatppA44a""", ""44a!D11""")"
Range("B12").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CValueppA44a""", ""44a!D12""")"
Range("B13").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""hdfA44a""", ""44a!D13""")"
Range("B14").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuedfA44a""", ""44a!D14""")"
Range("B15").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""tStatdfA44a""", ""44a!D15""")"
Range("B16").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""cValuedfA44a""", ""44a!D16""")"
Range("B17").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HppB44a""", ""44a!D17""")"
Range("B18").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""PValueppB44a""", ""44a!D18""")"
Range("B19").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""TStatppB44a""", ""44a!d19""")"
Range("B20").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CValueppB44a""", ""44a!d20""")"
Range("B21").Select
```

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""hdfB44a""", ""44a!d21""")"
Range("B22").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuedfB44a""", ""44a!d22""")"
Range("B23").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""tStatdfB44a""", ""44a!d23""")"
Range("B24").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""cValuedfB44a""", ""44a!d24""")"
Range("B25").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CorrA44a""", ""44a!d25""")"
Range("B26").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuecorrA44a""", ""44a!d26""")"
Range("B27").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatcorrA44a""", ""44a!d27""")"
Range("B28").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValuecorrA44a""", ""44a!d28""")"
Range("B29").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HA44a""", ""44a!d29""")"
Range("B30").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValueA44a""", ""44a!d30""")"
Range("B31").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatA44a""", ""44a!d31""")"
Range("B32").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValueA44a""", ""44a!d32""")"
Range("B33").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""P44a""", ""44a!d33""")"
Range("B34").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""DW44a""", ""44a!d34""")"
Range("B35").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CorrB44a""", ""44a!d35""")"
Range("B36").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuecorrB44a""", ""44a!d36""")"
Range("B37").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatcorrB44a""", ""44a!d37""")"

Range("B38").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValuecorrB44a""", ""44a!d38""")"
Range("B39").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HB44a""", ""44a!d39""")"
Range("B40").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValueB44a""", ""44a!d40""")"
Range("B41").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatB44a""", ""44a!d41""")"
Range("B42").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValueB44a""", ""44a!d42""")"
Range("B43").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""T""", ""44a!d43""")"
Range("B44").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""T1""", ""44a!d44""")"
Range("B45").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""AIC44a""", ""44a!d45""")"
Range("B46").Select

```
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""BIC44a""", ""44a!d46"")"
Range("B47").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""T2""", ""44a!d47"")"
Range("B48").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseA44a""", ""44a!d48"")"
Range("B49").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseB44a""", ""44a!d49"")"
Range("B50").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseC44a""", ""44a!d50"")"
Range("B51").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseD44a""", ""44a!d51"")"
Range("B52").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseE44a""", ""44a!d52"")"
Range("B53").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseF44a""", ""44a!d53"")"
Range("B54").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseG44a""", ""44a!d54"")"
Range("B55").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseH44a""", ""44a!d55"")"
Range("B56").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseI44a""", ""44a!d56"")"
Range("B57").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseJ44a""", ""44a!d57"")"
Range("B58").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeA44a""", ""44a!d58"")"
Range("B59").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeB44a""", ""44a!d59"")"
Range("B60").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeC44a""", ""44a!d60"")"
Range("B61").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeD44a""", ""44a!d61"")"
Range("B62").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeE44a""", ""44a!d62"")"
Range("B63").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeF44a""", ""44a!d63"")"
Range("B64").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeG44a""", ""44a!d64"")"
Range("B65").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeH44a""", ""44a!d65"")"
Range("B66").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeI44a""", ""44a!d66"")"
Range("B67").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeJ44a""", ""44a!d67"")"
Range("B68").Select

Sheets("graficos").Select

Range("B6").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""teste""", ""graficos!D6"")"
Range("B7").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""curta1""", ""graficos!e6"")"
Range("B8").Select
```

ActiveCell.FormulaR1C1 = "=MIGetMatrix(""curta2"" , ""graficos!f6"")" Range("B9").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""curta3"" , ""graficos!g6"")" Range("B10").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""curta4"" , ""graficos!h6"")" Range("B11").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""curta5"" , ""graficos!i6"")" Range("B12").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""curta6"" , ""graficos!j6"")" Range("B13").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""curta7"" , ""graficos!k6"")" Range("B14").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""curta8"" , ""graficos!l6"")" Range("B15").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""curta9"" , ""graficos!m6"")" Range("B16").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""curta10"" , ""graficos!n6"")" Range("B17").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""longa11"" , ""graficos!o6"")" Range("B18").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""longa12"" , ""graficos!p6"")" Range("B19").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""longa13"" , ""graficos!q6"")" Range("B20").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""longa14"" , ""graficos!r6"")" Range("B21").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""longa15"" , ""graficos!s6"")" Range("B22").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""longa16"" , ""graficos!t6"")" Range("B23").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""longa17"" , ""graficos!u6"")" Range("B24").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""longa18"" , ""graficos!v6"")" Range("B25").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""longa19"" , ""graficos!w6"")" Range("B26").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""longa20"" , ""graficos!y6"")" Range("B27").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""curta21"" , ""graficos!x6"")" Range("B28").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""longa22"" , ""graficos!z6"")" Range("B29").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""curta23"" , ""graficos!aa6"")" Range("B30").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""longa24"" , ""graficos!ab6"")" Range("B31").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""curta25"" , ""graficos!ac6"")" Range("B32").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""longa26"" , ""graficos!ad6"")" Range("B33").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""curta27"" , ""graficos!ae6"")" Range("B34").Select

```
Range("B34").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix( ""longa28"" , ""graficos!af6"" )"
Range("B35").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix( ""curta29"" , ""graficos!ag6"" )"
Range("B36").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix( ""longa30"" , ""graficos!ah6"" )"
Range("B37").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix( ""curta31"" , ""graficos!ai6"" )"
Range("B38").Select
```

```
Sheets("graficosim").Select
```

```
Range("B6").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix( ""teste"" , ""graficosim!D6"" )"
Range("B7").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix( ""curta1graf"" , ""graficosim!e6"" )"
Range("B8").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix( ""curta2graf"" , ""graficosim!f6"" )"
Range("B9").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix( ""curta3graf"" , ""graficosim!g6"" )"
Range("B10").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix( ""curta4graf"" , ""graficosim!h6"" )"
Range("B11").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix( ""curta5graf"" , ""graficosim!i6"" )"
Range("B12").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix( ""curta6graf"" , ""graficosim!j6"" )"
Range("B13").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix( ""curta7graf"" , ""graficosim!k6"" )"
Range("B14").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix( ""curta8graf"" , ""graficosim!l6"" )"
Range("B15").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix( ""curta9graf"" , ""graficosim!m6"" )"
Range("B16").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix( ""curta10graf"" , ""graficosim!n6"" )"
Range("B17").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix( ""longa11graf"" , ""graficosim!o6"" )"
Range("B18").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix( ""longa12graf"" , ""graficosim!p6"" )"
Range("B19").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix( ""longa13graf"" , ""graficosim!q6"" )"
Range("B20").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix( ""longa14graf"" , ""graficosim!r6"" )"
Range("B21").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix( ""longa15graf"" , ""graficosim!s6"" )"
Range("B22").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix( ""longa16graf"" , ""graficosim!t6"" )"
Range("B23").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix( ""longa17graf"" , ""graficosim!u6"" )"
Range("B24").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix( ""longa18graf"" , ""graficosim!v6"" )"
Range("B25").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix( ""longa19graf"" , ""graficosim!w6"" )"

```

```
Range("B26").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""longa20graf""", ""graficosim!y6""")"
Range("B27").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""curta21graf""", ""graficosim!x6""")"
Range("B28").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""longa22graf""", ""graficosim!z6""")"
Range("B29").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""curta23graf""", ""graficosim!aa6""")"
Range("B30").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""longa24graf""", ""graficosim!ab6""")"
Range("B31").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""curta25graf""", ""graficosim!ac6""")"
Range("B32").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""longa26graf""", ""graficosim!ad6""")"
Range("B33").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""curta27graf""", ""graficosim!ae6""")"
Range("B34").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""longa28graf""", ""graficosim!af6""")"
Range("B35").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""curta29graf""", ""graficosim!ag6""")"
Range("B36").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""longa30graf""", ""graficosim!ah6""")"
Range("B37").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""curta31graf""", ""graficosim!ai6""")"
Range("B38").Select
```

```
Sheets("bolling").Select
```

```
Range("B6").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""teste""", ""bolling!D6""")"
Range("B7").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""Movavgv2""", ""bolling!e7""")"
Range("B8").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""Movavgv3""", ""bolling!f8""")"
Range("B9").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""Movavgv4""", ""bolling!g9""")"
Range("B10").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""Movavgv5""", ""bolling!h10""")"

Range("B11").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""Movavgv6""", ""bolling!i11""")"
Range("B12").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""Movavgv7""", ""bolling!j12""")"
Range("B13").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""Movavgv8""", ""bolling!k13""")"
Range("B14").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""Movavgv9""", ""bolling!l14""")"
Range("B15").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""Movavgv10""", ""bolling!m15""")"
Range("B16").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""Movavgv11""", ""bolling!n16""")"
```


Range("B17").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""Movavgv12"" , ""bolling!o17"")"
Range("B18").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""Movavgv13"" , ""bolling!p18"")"
Range("B19").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""Movavgv14"" , ""bolling!q19"")"
Range("B20").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""Movavgv15"" , ""bolling!r20"")"
Range("B21").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""Movavgv16"" , ""bolling!s21"")"
Range("B22").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""Movavgv17"" , ""bolling!t22"")"
Range("B23").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""Movavgv18"" , ""bolling!u23"")"
Range("B24").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""Movavgv19"" , ""bolling!v24"")"
Range("B25").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""Movavgv20"" , ""bolling!w25"")"
Range("B26").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""UpperBand2"" , ""bolling!x7"")"
Range("B27").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""UpperBand3"" , ""bolling!y8"")"
Range("B28").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""UpperBand4"" , ""bolling!z9"")"
Range("B29").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""UpperBand5"" , ""bolling!aa10"")"
Range("B30").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""UpperBand6"" , ""bolling!ab11"")"
Range("B31").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""UpperBand7"" , ""bolling!ac12"")"
Range("B32").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""UpperBand8"" , ""bolling!ad13"")"
Range("B33").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""UpperBand9"" , ""bolling!ae14"")"
Range("B34").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""UpperBand10"" , ""bolling!af15"")"
Range("B35").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""UpperBand11"" , ""bolling!ag16"")"
Range("B36").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""UpperBand12"" , ""bolling!ah17"")"
Range("B37").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""UpperBand13"" , ""bolling!ai18"")"
Range("B38").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""UpperBand14"" , ""bolling!aj19"")"
Range("B39").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""UpperBand15"" , ""bolling!ak20"")"
Range("B40").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""UpperBand16"" , ""bolling!al21"")"
Range("B41").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""UpperBand17"" , ""bolling!am22"")"
Range("B42").Select

```
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""UpperBand18""", ""bolling!an23"")"
Range("B43").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""UpperBand19""", ""bolling!ao24"")"
Range("B44").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""UpperBand20""", ""bolling!ap25"")"
Range("B45").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""LowerBand2""", ""bolling!aq7"")"
Range("B46").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""LowerBand3""", ""bolling!ar8"")"
Range("B47").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""LowerBand4""", ""bolling!as9"")"
Range("B48").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""LowerBand5""", ""bolling!at10"")"
Range("B49").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""LowerBand6""", ""bolling!au11"")"
Range("B50").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""LowerBand7""", ""bolling!av12"")"
Range("B51").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""LowerBand8""", ""bolling!aw13"")"
Range("B52").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""LowerBand9""", ""bolling!ax14"")"
Range("B53").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""LowerBand10""", ""bolling!ay15"")"
Range("B54").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""LowerBand11""", ""bolling!az16"")"
Range("B55").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""LowerBand12""", ""bolling!ba17"")"
Range("B56").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""LowerBand13""", ""bolling!bb18"")"
Range("B57").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""LowerBand14""", ""bolling!bc19"")"
Range("B58").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""LowerBand15""", ""bolling!bd20"")"
Range("B59").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""LowerBand16""", ""bolling!be21"")"
Range("B60").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""LowerBand17""", ""bolling!bf22"")"
Range("B61").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""LowerBand18""", ""bolling!bg23"")"
Range("B62").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""LowerBand19""", ""bolling!bh24"")"
Range("B63").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""LowerBand20""", ""bolling!bi25"")"
Range("B64").Select
ActiveCell.FormulaR1C1 = ""
Range("B65").Select

Sheets("bollingsim").Select

Range("B6").Select
```

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""teste""", ""bollingsim!D6""")"
Range("B7").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""Movavgv2graf""", ""bollingsim!e7""")"
Range("B8").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""Movavgv3graf""", ""bollingsim!f8""")"
Range("B9").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""Movavgv4graf""", ""bollingsim!g9""")"
Range("B10").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""Movavgv5graf""", ""bollingsim!h10""")"
Range("B11").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""Movavgv6graf""", ""bollingsim!i11""")"
Range("B12").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""Movavgv7graf""", ""bollingsim!j12""")"
Range("B13").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""Movavgv8graf""", ""bollingsim!k13""")"
Range("B14").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""Movavgv9graf""", ""bollingsim!l14""")"
Range("B15").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""Movavgv10graf""", ""bollingsim!m15""")"
Range("B16").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""Movavgv11graf""", ""bollingsim!n16""")"
Range("B17").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""Movavgv12graf""", ""bollingsim!o17""")"
Range("B18").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""Movavgv13graf""", ""bollingsim!p18""")"
Range("B19").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""Movavgv14graf""", ""bollingsim!q19""")"
Range("B20").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""Movavgv15graf""", ""bollingsim!r20""")"
Range("B21").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""Movavgv16graf""", ""bollingsim!s21""")"
Range("B22").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""Movavgv17graf""", ""bollingsim!t22""")"
Range("B23").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""Movavgv18graf""", ""bollingsim!u23""")"
Range("B24").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""Movavgv19graf""", ""bollingsim!v24""")"
Range("B25").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""Movavgv20graf""", ""bollingsim!w25""")"
Range("B26").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""UpperBand2graf""", ""bollingsim!x7""")"
Range("B27").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""UpperBand3graf""", ""bollingsim!y8""")"
Range("B28").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""UpperBand4graf""", ""bollingsim!z9""")"
Range("B29").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""UpperBand5graf""", ""bollingsim!aa10""")"
Range("B30").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""UpperBand6graf""", ""bollingsim!ab11""")"
Range("B31").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""UpperBand7graf""", ""bollingsim!ac12""")"

```
Range("B32").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix( ""UpperBand8graf"", ""bollingsim!ad13"" )"
Range("B33").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix( ""UpperBand9graf"", ""bollingsim!ae14"" )"
Range("B34").Select
ActiveCell.FormulaR1C1 = _
    "=MIGetMatrix( ""UpperBand10graf"", ""bollingsim!af15"" )"
Range("B35").Select
ActiveCell.FormulaR1C1 = _
    "=MIGetMatrix( ""UpperBand11graf"", ""bollingsim!ag16"" )"
Range("B36").Select
ActiveCell.FormulaR1C1 = _
    "=MIGetMatrix( ""UpperBand12graf"", ""bollingsim!ah17"" )"
Range("B37").Select
ActiveCell.FormulaR1C1 = _
    "=MIGetMatrix( ""UpperBand13graf"", ""bollingsim!ai18"" )"
Range("B38").Select
ActiveCell.FormulaR1C1 = _
    "=MIGetMatrix( ""UpperBand14graf"", ""bollingsim!aj19"" )"
Range("B39").Select
ActiveCell.FormulaR1C1 = _
    "=MIGetMatrix( ""UpperBand15graf"", ""bollingsim!ak20"" )"
Range("B40").Select
ActiveCell.FormulaR1C1 = _
    "=MIGetMatrix( ""UpperBand16graf"", ""bollingsim!al21"" )"
Range("B41").Select
ActiveCell.FormulaR1C1 = _
    "=MIGetMatrix( ""UpperBand17graf"", ""bollingsim!am22"" )"
Range("B42").Select
ActiveCell.FormulaR1C1 = _
    "=MIGetMatrix( ""UpperBand18graf"", ""bollingsim!an23"" )"
Range("B43").Select
ActiveCell.FormulaR1C1 = _
    "=MIGetMatrix( ""UpperBand19graf"", ""bollingsim!ao24"" )"
Range("B44").Select
ActiveCell.FormulaR1C1 = _
    "=MIGetMatrix( ""UpperBand20graf"", ""bollingsim!ap25"" )"
Range("B45").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix( ""LowerBand2graf"", ""bollingsim!aq7"" )"
Range("B46").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix( ""LowerBand3graf"", ""bollingsim!ar8"" )"
Range("B47").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix( ""LowerBand4graf"", ""bollingsim!as9"" )"
Range("B48").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix( ""LowerBand5graf"", ""bollingsim!at10"" )"
Range("B49").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix( ""LowerBand6graf"", ""bollingsim!au11"" )"
Range("B50").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix( ""LowerBand7graf"", ""bollingsim!av12"" )"
Range("B51").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix( ""LowerBand8graf"", ""bollingsim!aw13"" )"

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Range("B52").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix( ""LowerBand9graf"" , ""bollingsim!ax14"" )"
Range("B53").Select
ActiveCell.FormulaR1C1 = _
    "=MIGetMatrix( ""LowerBand10graf"" , ""bollingsim!ay15"" )"
Range("B54").Select
ActiveCell.FormulaR1C1 = _
    "=MIGetMatrix( ""LowerBand11graf"" , ""bollingsim!az16"" )"
Range("B55").Select
ActiveCell.FormulaR1C1 = _
    "=MIGetMatrix( ""LowerBand12graf"" , ""bollingsim!ba17"" )"
Range("B56").Select
ActiveCell.FormulaR1C1 = _
    "=MIGetMatrix( ""LowerBand13graf"" , ""bollingsim!bb18"" )"
Range("B57").Select
ActiveCell.FormulaR1C1 = _
    "=MIGetMatrix( ""LowerBand14graf"" , ""bollingsim!bc19"" )"
Range("B58").Select
ActiveCell.FormulaR1C1 = _
    "=MIGetMatrix( ""LowerBand15graf"" , ""bollingsim!bd20"" )"
Range("B59").Select
ActiveCell.FormulaR1C1 = _
    "=MIGetMatrix( ""LowerBand16graf"" , ""bollingsim!be21"" )"
Range("B60").Select

ActiveCell.FormulaR1C1 = _
    "=MIGetMatrix( ""LowerBand17graf"" , ""bollingsim!bf22"" )"
Range("B61").Select

ActiveCell.FormulaR1C1 = _
    "=MIGetMatrix( ""LowerBand18graf"" , ""bollingsim!bg23"" )"
Range("B62").Select
ActiveCell.FormulaR1C1 = _
    "=MIGetMatrix( ""LowerBand19graf"" , ""bollingsim!bh24"" )"
Range("B63").Select
ActiveCell.FormulaR1C1 = _
    "=MIGetMatrix( ""LowerBand20graf"" , ""bollingsim!bi25"" )"
Range("B64").Select

End Sub

Sub vonpiter2()
" vonpiter2 Macro

' Macro gravada em 12/02/2009 por JOSÉ DE PIETRO NETO
' Atalho do teclado: Ctrl+s
'
    Sheets("41").Select
Range("B2").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix( ""PValuepp41"" , ""41!D2"" )"
Range("B1").Select

```

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""Hpp41""", ""41!D1""")"
Range("B2").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""PValuepp41""", ""41!D2""")"
Range("B3").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""TStatpp41""", ""41!D3""")"
Range("B4").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CValuepp41""", ""41!D4""")"
Range("B5").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""hdf41""", ""41!D5""")"
Range("B6").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuedf41""", ""41!D6""")"
Range("B7").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""tStatdf41""", ""41!D7""")"
Range("B8").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""cValuedf41""", ""41!D8""")"
Range("B9").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HppA41""", ""41!D9""")"
Range("B10").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""PValueppA41""", ""41!D10""")"
Range("B11").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""TStatppA41""", ""41!D11""")"
Range("B12").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CValueppA41""", ""41!D12""")"
Range("B13").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""hdfA41""", ""41!D13""")"
Range("B14").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuedfA41""", ""41!D14""")"
Range("B15").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""tStatdfA41""", ""41!D15""")"
Range("B16").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""cValuedfA41""", ""41!D16""")"
Range("B17").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HppB41""", ""41!D17""")"
Range("B18").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""PValueppB41""", ""41!D18""")"
Range("B19").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""TStatppB41""", ""41!d19""")"
Range("B20").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CValueppB41""", ""41!d20""")"
Range("B21").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""hdfB41""", ""41!d21""")"
Range("B22").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuedfB41""", ""41!d22""")"
Range("B23").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""tStatdfB41""", ""41!d23""")"
Range("B24").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""cValuedfB41""", ""41!d24""")"
Range("B25").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CorrA41""", ""41!d25""")"
Range("B26").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuecorrA41""", ""41!d26""")"

Range("B27").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(StatcorrA41,41!d27)"
Range("B28").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(CriticalValuecorrA41,41!d28)"
Range("B29").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(HA41,41!d29)"
Range("B30").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(pValueA41,41!d30)"
Range("B31").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(StatA41,41!d31)"
Range("B32").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(CriticalValueA41,41!d32)"
Range("B33").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(P41,41!d33)"
Range("B34").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(DW41,41!d34)"
Range("B35").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(CorrB41,41!d35)"
Range("B36").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(pValuecorrB41,41!d36)"
Range("B37").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(StatcorrB41,41!d37)"
Range("B38").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(CriticalValuecorrB41,41!d38)"
Range("B39").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(HB41,41!d39)"
Range("B40").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(pValueB41,41!d40)"
Range("B41").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(StatB41,41!d41)"
Range("B42").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(CriticalValueB41,41!d42)"
Range("B43").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(T,41!d43)"
Range("B44").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(T1,41!d44)"
Range("B45").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(AIC41,41!d45)"
Range("B46").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(BIC41,41!d46)"
Range("B47").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(T2,41!d47)"
Range("B48").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(mseA41,41!d48)"
Range("B49").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(mseB41,41!d49)"
Range("B50").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(mseC41,41!d50)"
Range("B51").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(mseD41,41!d51)"
Range("B52").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseE41""", ""41!d52""")"
Range("B53").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseF41""", ""41!d53""")"
Range("B54").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseG41""", ""41!d54""")"
Range("B55").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseH41""", ""41!d55""")"
Range("B56").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseI41""", ""41!d56""")"
Range("B57").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseJ41""", ""41!d57""")"
Range("B58").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeA41""", ""41!d58""")"
Range("B59").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeB41""", ""41!d59""")"
Range("B60").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeC41""", ""41!d60""")"
Range("B61").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeD41""", ""41!d61""")"
Range("B62").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeE41""", ""41!d62""")"
Range("B63").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeF41""", ""41!d63""")"
Range("B64").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeG41""", ""41!d64""")"
Range("B65").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeH41""", ""41!d65""")"
Range("B66").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeI41""", ""41!d66""")"
Range("B67").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeJ41""", ""41!d67""")"
Range("B68").Select

Sheets("42").Select

Range("B1").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""Hpp42""", ""42!D1""")"
Range("B2").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""PValuepp42""", ""42!D2""")"
Range("B3").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""TStatpp42""", ""42!D3""")"
Range("B4").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CValuepp42""", ""42!D4""")"
Range("B5").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""hdf42""", ""42!D5""")"
Range("B6").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuedf42""", ""42!D6""")"
Range("B7").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""tStatdf42""", ""42!D7""")"
Range("B8").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""cValuedf42""", ""42!D8""")"

Range("B9").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HppA42""", ""42!D9""")"
Range("B10").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""PValueppA42""", ""42!D10""")"
Range("B11").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""TStatppA42""", ""42!D11""")"
Range("B12").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CValueppA42""", ""42!D12""")"
Range("B13").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""hdfA42""", ""42!D13""")"
Range("B14").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuedfA42""", ""42!D14""")"
Range("B15").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""tStatdfA42""", ""42!D15""")"
Range("B16").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""cValuedfA42""", ""42!D16""")"
Range("B17").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HppB42""", ""42!D17""")"
Range("B18").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""PValueppB42""", ""42!D18""")"
Range("B19").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""TStatppB42""", ""42!d19""")"
Range("B20").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CValueppB42""", ""42!d20""")"
Range("B21").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""hdfB42""", ""42!d21""")"
Range("B22").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuedfB42""", ""42!d22""")"
Range("B23").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""tStatdfB42""", ""42!d23""")"
Range("B24").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""cValuedfB42""", ""42!d24""")"
Range("B25").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CorrA42""", ""42!d25""")"
Range("B26").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuecorrA42""", ""42!d26""")"
Range("B27").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatcorrA42""", ""42!d27""")"
Range("B28").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValuecorrA42""", ""42!d28""")"
Range("B29").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HA42""", ""42!d29""")"
Range("B30").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValueA42""", ""42!d30""")"
Range("B31").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatA42""", ""42!d31""")"
Range("B32").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValueA42""", ""42!d32""")"
Range("B33").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""P42""", ""42!d33""")"
Range("B34").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""DW42""", ""42!d34""")"
Range("B35").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CorrB42""", ""42!d35""")"
Range("B36").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuecorrB42""", ""42!d36""")"
Range("B37").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatcorrB42""", ""42!d37""")"
Range("B38").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValuecorrB42""", ""42!d38""")"
Range("B39").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HB42""", ""42!d39""")"
Range("B40").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValueB42""", ""42!d40""")"
Range("B41").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatB42""", ""42!d41""")"
Range("B42").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValueB42""", ""42!d42""")"
Range("B43").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""T""", ""42!d43""")"
Range("B44").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""T1""", ""42!d44""")"
Range("B45").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""AIC42""", ""42!d45""")"
Range("B46").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""BIC42""", ""42!d46""")"
Range("B47").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""T2""", ""42!d47""")"
Range("B48").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseA42""", ""42!d48""")"
Range("B49").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseB42""", ""42!d49""")"
Range("B50").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseC42""", ""42!d50""")"
Range("B51").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseD42""", ""42!d51""")"
Range("B52").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseE42""", ""42!d52""")"
Range("B53").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseF42""", ""42!d53""")"
Range("B54").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseG42""", ""42!d54""")"
Range("B55").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseH42""", ""42!d55""")"
Range("B56").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseI42""", ""42!d56""")"
Range("B57").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseJ42""", ""42!d57""")"
Range("B58").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeA42""", ""42!d58""")"
Range("B59").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeB42""", ""42!d59""")"

```
Range("B60").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeC42""", ""42!d60""")"
Range("B61").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeD42""", ""42!d61""")"
Range("B62").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeE42""", ""42!d62""")"
Range("B63").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeF42""", ""42!d63""")"
Range("B64").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeG42""", ""42!d64""")"
Range("B65").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeH42""", ""42!d65""")"
Range("B66").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeI42""", ""42!d66""")"
Range("B67").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeJ42""", ""42!d67""")"
Range("B68").Select
```

```
Sheets("43").Select
```

```
Range("B1").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""Hpp43""", ""43!D1""")"
Range("B2").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""PValuepp43""", ""43!D2""")"
Range("B3").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""TStatpp43""", ""43!D3""")"
Range("B4").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CValuepp43""", ""43!D4""")"
Range("B5").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""hdf43""", ""43!D5""")"
Range("B6").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuedf43""", ""43!D6""")"
Range("B7").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""tStatdf43""", ""43!D7""")"
Range("B8").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""cValuedf43""", ""43!D8""")"
Range("B9").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HppA43""", ""43!D9""")"
Range("B10").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""PValueppA43""", ""43!D10""")"
Range("B11").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""TStatppA43""", ""43!D11""")"
Range("B12").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CValueppA43""", ""43!D12""")"
Range("B13").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""hdfA43""", ""43!D13""")"
Range("B14").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuedfA43""", ""43!D14""")"
Range("B15").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""tStatdfA43""", ""43!D15""")"
Range("B16").Select
```

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""cValuedfA43""", ""43!D16""")"
Range("B17").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HppB43""", ""43!D17""")"
Range("B18").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""PValueppB43""", ""43!D18""")"
Range("B19").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""TStatppB43""", ""43!d19""")"
Range("B20").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CValueppB43""", ""43!d20""")"
Range("B21").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""hdfB43""", ""43!d21""")"
Range("B22").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuedfB43""", ""43!d22""")"
Range("B23").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""tStatdfB43""", ""43!d23""")"
Range("B24").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""cValuedfB43""", ""43!d24""")"
Range("B25").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CorrA43""", ""43!d25""")"
Range("B26").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuecorrA43""", ""43!d26""")"
Range("B27").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatcorrA43""", ""43!d27""")"
Range("B28").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValuecorrA43""", ""43!d28""")"
Range("B29").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HA43""", ""43!d29""")"
Range("B30").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValueA43""", ""43!d30""")"
Range("B31").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatA43""", ""43!d31""")"
Range("B32").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValueA43""", ""43!d32""")"
Range("B33").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""P43""", ""43!d33""")"
Range("B34").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""DW43""", ""43!d34""")"
Range("B35").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CorrB43""", ""43!d35""")"
Range("B36").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuecorrB43""", ""43!d36""")"
Range("B37").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatcorrB43""", ""43!d37""")"
Range("B38").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValuecorrB43""", ""43!d38""")"
Range("B39").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HB43""", ""43!d39""")"
Range("B40").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValueB43""", ""43!d40""")"
Range("B41").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatB43""", ""43!d41""")"

Range("B42").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValueB43""", ""43!d42"")"
Range("B43").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""T""", ""43!d43"")"
Range("B44").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""T1""", ""43!d44"")"
Range("B45").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""AIC43""", ""43!d45"")"
Range("B46").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""BIC43""", ""43!d46"")"
Range("B47").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""T2""", ""43!d47"")"
Range("B48").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseA43""", ""43!d48"")"
Range("B49").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseB43""", ""43!d49"")"
Range("B50").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseC43""", ""43!d50"")"
Range("B51").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseD43""", ""43!d51"")"
Range("B53").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseF43""", ""43!d53"")"
Range("B54").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseG43""", ""43!d54"")"
Range("B55").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseH43""", ""43!d55"")"
Range("B56").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseI43""", ""43!d56"")"
Range("B57").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseJ43""", ""43!d57"")"
Range("B52").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseE43""", ""43!d52"")"
Range("B58").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeA43""", ""43!d58"")"
Range("B59").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeB43""", ""43!d59"")"

Range("B60").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeC43""", ""43!d60"")"
Range("B61").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeD43""", ""43!d61"")"
Range("B62").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeE43""", ""43!d62"")"
Range("B63").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeF43""", ""43!d63"")"
Range("B64").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeG43""", ""43!d64"")"
Range("B65").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeH43""", ""43!d65"")"
Range("B66").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeI43""", ""43!d66"")"

Range("B67").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""maeJ43"" , ""43!d67"")"
Range("B68").Select

Sheets("44").Select

Range("B1").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""Hpp44"" , ""44!D1"")"
Range("B2").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""PValuepp44"" , ""44!D2"")"
Range("B3").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""TStatpp44"" , ""44!D3"")"
Range("B4").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""CValuepp44"" , ""44!D4"")"
Range("B5").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""hdf44"" , ""44!D5"")"
Range("B6").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""pValuedf44"" , ""44!D6"")"
Range("B7").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""tStatdf44"" , ""44!D7"")"
Range("B8").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""cValuedf44"" , ""44!D8"")"
Range("B9").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""HppA44"" , ""44!D9"")"
Range("B10").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""PValueppA44"" , ""44!D10"")"
Range("B11").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""TStatppA44"" , ""44!D11"")"
Range("B12").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""CValueppA44"" , ""44!D12"")"
Range("B13").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""hdfA44"" , ""44!D13"")"
Range("B14").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""pValuedfA44"" , ""44!D14"")"
Range("B15").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""tStatdfA44"" , ""44!D15"")"
Range("B16").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""cValuedfA44"" , ""44!D16"")"
Range("B17").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""HppB44"" , ""44!D17"")"
Range("B18").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""PValueppB44"" , ""44!D18"")"
Range("B19").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""TStatppB44"" , ""44!d19"")"
Range("B20").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""CValueppB44"" , ""44!d20"")"
Range("B21").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""hdfB44"" , ""44!d21"")"
Range("B22").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""pValuedfB44"" , ""44!d22"")"
Range("B23").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""tStatdfB44""", ""44!d23""")"
Range("B24").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""cValuedfB44""", ""44!d24""")"
Range("B25").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CorrA44""", ""44!d25""")"
Range("B26").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuecorrA44""", ""44!d26""")"
Range("B27").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatcorrA44""", ""44!d27""")"
Range("B28").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValuecorrA44""", ""44!d28""")"
Range("B29").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HA44""", ""44!d29""")"
Range("B30").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValueA44""", ""44!d30""")"
Range("B31").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatA44""", ""44!d31""")"
Range("B32").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValueA44""", ""44!d32""")"
Range("B33").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""P44""", ""44!d33""")"
Range("B34").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""DW44""", ""44!d34""")"
Range("B35").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CorrB44""", ""44!d35""")"
Range("B36").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuecorrB44""", ""44!d36""")"
Range("B37").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatcorrB44""", ""44!d37""")"
Range("B38").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValuecorrB44""", ""44!d38""")"
Range("B39").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HB44""", ""44!d39""")"
Range("B40").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValueB44""", ""44!d40""")"
Range("B41").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatB44""", ""44!d41""")"
Range("B42").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValueB44""", ""44!d42""")"
Range("B43").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""T""", ""44!d43""")"
Range("B44").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""T1""", ""44!d44""")"
Range("B45").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""AIC44""", ""44!d45""")"
Range("B46").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""BIC44""", ""44!d46""")"
Range("B47").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""T2""", ""44!d47""")"
Range("B48").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseA44""", ""44!d48""")"

```
Range("B49").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseB44""", ""44!d49"")"
Range("B50").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseC44""", ""44!d50"")"
Range("B51").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseD44""", ""44!d51"")"
Range("B52").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseE44""", ""44!d52"")"
Range("B53").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseF44""", ""44!d53"")"
Range("B54").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseG44""", ""44!d54"")"
Range("B55").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseH44""", ""44!d55"")"
Range("B56").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseI44""", ""44!d56"")"
Range("B57").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseJ44""", ""44!d57"")"
Range("B58").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeA44""", ""44!d58"")"
Range("B59").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeB44""", ""44!d59"")"
Range("B60").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeC44""", ""44!d60"")"
Range("B61").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeD44""", ""44!d61"")"
Range("B62").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeE44""", ""44!d62"")"
Range("B63").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeF44""", ""44!d63"")"
Range("B64").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeG44""", ""44!d64"")"
Range("B65").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeH44""", ""44!d65"")"
Range("B66").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeI44""", ""44!d66"")"
Range("B67").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeJ44""", ""44!d67"")"
Range("B68").Select
```

```
Sheets("11a").Select
```

```
Range("B1").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""Hpp11a""", ""11a!D1"")"
Range("B2").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""PValuepp11a""", ""11a!D2"")"
Range("B3").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""TStatpp11a""", ""11a!D3"")"
```



```
Range("B4").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CValuepp11a""", ""11a!D4""")"
Range("B5").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""hdf11a""", ""11a!D5""")"
Range("B6").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuedf11a""", ""11a!D6""")"
Range("B7").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""tStatdf11a""", ""11a!D7""")"
Range("B8").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""cValuedf11a""", ""11a!D8""")"
Range("B9").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HppA11a""", ""11a!D9""")"
Range("B11").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""TStatppA11a""", ""11a!D11""")"
Range("B12").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CValueppA11a""", ""11a!D12""")"
Range("B13").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""hdfA11a""", ""11a!D13""")"
Range("B14").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuedfA11a""", ""11a!D14""")"
Range("B15").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""tStatdfA11a""", ""11a!D15""")"
Range("B10").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""PValueppA11a""", ""11a!D10""")"
Range("B16").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""cValuedfA11a""", ""11a!D16""")"
Range("B17").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HppB11a""", ""11a!D17""")"
Range("B18").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""PValueppB11a""", ""11a!D18""")"
Range("B19").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""TStatppB11a""", ""11a!d19""")"
Range("B20").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CValueppB11a""", ""11a!d20""")"
Range("B21").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""hdfB11a""", ""11a!d21""")"
Range("B22").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuedfB11a""", ""11a!d22""")"
Range("B23").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""tStatdfB11a""", ""11a!d23""")"
Range("B24").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""cValuedfB11a""", ""11a!d24""")"
Range("B25").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CorrA11a""", ""11a!d25""")"
Range("B26").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuecorrA11a""", ""11a!d26""")"
Range("B27").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatcorrA11a""", ""11a!d27""")"
Range("B28").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValuecorrA11a""", ""11a!d28""")"
Range("B29").Select
```

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HA11a""", ""11a!d29""")"
Range("B30").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValueA11a""", ""11a!d30""")"
Range("B31").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatA11a""", ""11a!d31""")"

Range("B32").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValueA11a""", ""11a!d32""")"
Range("B33").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""P11a""", ""11a!d33""")"
Range("B34").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""DW11a""", ""11a!d34""")"
Range("B35").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CorrB11a""", ""11a!d35""")"
Range("B36").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuecorrB11a""", ""11a!d36""")"
Range("B37").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatcorrB11a""", ""11a!d37""")"
Range("B38").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValuecorrB11a""", ""11a!d38""")"
Range("B39").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HB11a""", ""11a!d39""")"
Range("B40").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValueB11a""", ""11a!d40""")"
Range("B41").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatB11a""", ""11a!d41""")"
Range("B42").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValueB11a""", ""11a!d42""")"
Range("B43").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""T""", ""11a!d43""")"
Range("B44").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""T1""", ""11a!d44""")"
Range("B45").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""AIC11a""", ""11a!d45""")"
Range("B46").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""BIC11a""", ""11a!d46""")"
Range("B47").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""T2""", ""11a!d47""")"
Range("B48").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseA11a""", ""11a!d48""")"
Range("B49").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseB11a""", ""11a!d49""")"
Range("B50").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseC11a""", ""11a!d50""")"
Range("B51").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseD11a""", ""11a!d51""")"
Range("B52").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseE11a""", ""11a!d52""")"
Range("B53").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseF11a""", ""11a!d53""")"
Range("B54").Select

```
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseG11a""", ""11a!d54""")"
Range("B55").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseH11a""", ""11a!d55""")"
Range("B56").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseI11a""", ""11a!d56""")"
Range("B57").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseJ11a""", ""11a!d57""")"
Range("B58").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeA11a""", ""11a!d58""")"
Range("B59").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeB11a""", ""11a!d59""")"
Range("B60").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeC11a""", ""11a!d60""")"
Range("B61").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeD11a""", ""11a!d61""")"
Range("B62").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeE11a""", ""11a!d62""")"
Range("B63").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeF11a""", ""11a!d63""")"
Range("B64").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeG11a""", ""11a!d64""")"
Range("B65").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeH11a""", ""11a!d65""")"
Range("B66").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeI11a""", ""11a!d66""")"
Range("B67").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeJ11a""", ""11a!d67""")"
Range("B68").Select
```

```
Sheets("12a").Select
```

```
Range("B1").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""Hpp12a""", ""12a!D1""")"
Range("B2").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""PValuepp12a""", ""12a!D2""")"
Range("B3").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""TStatpp12a""", ""12a!D3""")"
Range("B4").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CValuepp12a""", ""12a!D4""")"
Range("B5").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""hdf12a""", ""12a!D5""")"
Range("B6").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuedf12a""", ""12a!D6""")"
Range("B7").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""tStatdf12a""", ""12a!D7""")"
Range("B8").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""cValuedf12a""", ""12a!D8""")"
Range("B9").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HppA12a""", ""12a!D9""")"
Range("B10").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""PValueppA12a""", ""12a!D10""")"
```

```
Range("B11").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""TStatppA12a""", ""12a!D11""")"
Range("B12").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CValueppA12a""", ""12a!D12""")"
Range("B13").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""hdfA12a""", ""12a!D13""")"
Range("B14").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuedfA12a""", ""12a!D14""")"
Range("B15").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""tStatdfA12a""", ""12a!D15""")"
Range("B16").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""cValuedfA12a""", ""12a!D16""")"
Range("B17").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HppB12a""", ""12a!D17""")"
Range("B18").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""PValueppB12a""", ""12a!D18""")"

Range("B19").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""TStatppB12a""", ""12a!d19""")"
Range("B20").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CValueppB12a""", ""12a!d20""")"
Range("B21").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""hdfB12a""", ""12a!d21""")"
Range("B22").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuedfB12a""", ""12a!d22""")"
Range("B23").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""tStatdfB12a""", ""12a!d23""")"
Range("B24").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""cValuedfB12a""", ""12a!d24""")"
Range("B25").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CorrA12a""", ""12a!d25""")"
Range("B26").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuecorrA12a""", ""12a!d26""")"
Range("B27").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatcorrA12a""", ""12a!d27""")"
Range("B28").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValuecorrA12a""", ""12a!d28""")"
Range("B29").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HA12a""", ""12a!d29""")"
Range("B30").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValueA12a""", ""12a!d30""")"
Range("B31").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatA12a""", ""12a!d31""")"
Range("B32").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValueA12a""", ""12a!d32""")"
Range("B33").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""P12a""", ""12a!d33""")"
Range("B34").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""DW12a""", ""12a!d34""")"
Range("B35").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CorrB12a""", ""12a!d35""")"
```

Range("B36").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuecorrB12a""", ""12a!d36""")"
Range("B37").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatcorrB12a""", ""12a!d37""")"
Range("B38").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValuecorrB12a""", ""12a!d38""")"
Range("B39").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HB12a""", ""12a!d39""")"
Range("B40").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValueB12a""", ""12a!d40""")"
Range("B41").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatB12a""", ""12a!d41""")"
Range("B42").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValueB12a""", ""12a!d42""")"
Range("B43").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""T""", ""12a!d43""")"
Range("B44").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""T1""", ""12a!d44""")"
Range("B45").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""AIC12a""", ""12a!d45""")"
Range("B46").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""BIC12a""", ""12a!d46""")"
Range("B47").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""T2""", ""12a!d47""")"
Range("B48").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseA12a""", ""12a!d48""")"
Range("B49").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseB12a""", ""12a!d49""")"
Range("B50").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseC12a""", ""12a!d50""")"
Range("B51").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseD12a""", ""12a!d51""")"
Range("B52").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseE12a""", ""12a!d52""")"
Range("B53").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseF12a""", ""12a!d53""")"
Range("B54").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseG12a""", ""12a!d54""")"
Range("B55").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseH12a""", ""12a!d55""")"
Range("B56").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseI12a""", ""12a!d56""")"
Range("B57").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseJ12a""", ""12a!d57""")"
Range("B58").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeA12a""", ""12a!d58""")"
Range("B59").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeB12a""", ""12a!d59""")"
Range("B60").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeC12a""", ""12a!d60""")"
Range("B61").Select

```
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeD12a""", ""12a!d61""")"
Range("B63").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeF12a""", ""12a!d63""")"
Range("B62").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeE12a""", ""12a!d62""")"
Range("B63").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeF12a""", ""12a!d63""")"
Range("B64").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeG12a""", ""12a!d64""")"
Range("B65").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeH12a""", ""12a!d65""")"
Range("B66").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeI12a""", ""12a!d66""")"
Range("B67").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeJ12a""", ""12a!d67""")"
Range("B68").Select
```

```
Sheets("13a").Select
```

```
Range("B1").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""Hpp13a""", ""13a!D1""")"
Range("B2").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""PValuepp13a""", ""13a!D2""")"
Range("B3").Select
```

```
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""TStatpp13a""", ""13a!D3""")"
Range("B4").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CValuepp13a""", ""13a!D4""")"
Range("B5").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""hdf13a""", ""13a!D5""")"
Range("B6").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuedf13a""", ""13a!D6""")"
Range("B7").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""tStatdf13a""", ""13a!D7""")"
Range("B8").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""cValuedf13a""", ""13a!D8""")"
Range("B9").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HppA13a""", ""13a!D9""")"
Range("B10").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""PValueppA13a""", ""13a!D10""")"
Range("B11").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""TStatppA13a""", ""13a!D11""")"
Range("B12").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CValueppA13a""", ""13a!D12""")"
Range("B13").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""hdfA13a""", ""13a!D13""")"
Range("B14").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuedfA13a""", ""13a!D14""")"
Range("B15").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""tStatdfA13a""", ""13a!D15""")"
Range("B16").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""cValuedfA13a""", ""13a!D16""")"
```

Range("B17").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HppB13a""", ""13a!D17""")"
Range("B18").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""PValueppB13a""", ""13a!D18""")"
Range("B19").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""TStatppB13a""", ""13a!d19""")"
Range("B20").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CValueppB13a""", ""13a!d20""")"
Range("B21").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""hdfB13a""", ""13a!d21""")"
Range("B22").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuedfB13a""", ""13a!d22""")"
Range("B23").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""tStatdfB13a""", ""13a!d23""")"
Range("B24").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""cValuedfB13a""", ""13a!d24""")"
Range("B25").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CorrA13a""", ""13a!d25""")"
Range("B26").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuecorrA13a""", ""13a!d26""")"
Range("B27").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatcorrA13a""", ""13a!d27""")"
Range("B28").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValuecorrA13a""", ""13a!d28""")"
Range("B29").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HA13a""", ""13a!d29""")"
Range("B31").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatA13a""", ""13a!d31""")"
Range("B32").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValueA13a""", ""13a!d32""")"
Range("B33").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""P13a""", ""13a!d33""")"
Range("B34").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""DW13a""", ""13a!d34""")"
Range("B35").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CorrB13a""", ""13a!d35""")"
Range("B36").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuecorrB13a""", ""13a!d36""")"
Range("B37").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatcorrB13a""", ""13a!d37""")"
Range("B38").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValuecorrB13a""", ""13a!d38""")"
Range("B30").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValueA13a""", ""13a!d30""")"
Range("B39").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HB13a""", ""13a!d39""")"
Range("B40").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValueB13a""", ""13a!d40""")"
Range("B41").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatB13a""", ""13a!d41""")"
Range("B42").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValueB13a""", ""13a!d42""")"
Range("B43").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""T""", ""13a!d43""")"
Range("B44").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""T1""", ""13a!d44""")"
Range("B45").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""AIC13a""", ""13a!d45""")"
Range("B46").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""BIC13a""", ""13a!d46""")"
Range("B47").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""T2""", ""13a!d47""")"
Range("B48").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseA13a""", ""13a!d48""")"
Range("B49").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseB13a""", ""13a!d49""")"
Range("B50").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseC13a""", ""13a!d50""")"
Range("B51").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseD13a""", ""13a!d51""")"
Range("B52").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseE13a""", ""13a!d52""")"
Range("B53").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseF13a""", ""13a!d53""")"
Range("B54").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseG13a""", ""13a!d54""")"
Range("B55").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseH13a""", ""13a!d55""")"
Range("B56").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseI13a""", ""13a!d56""")"
Range("B57").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseJ13a""", ""13a!d57""")"
Range("B58").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeA13a""", ""13a!d58""")"
Range("B59").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeB13a""", ""13a!d59""")"
Range("B60").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeC13a""", ""13a!d60""")"
Range("B61").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeD13a""", ""13a!d61""")"
Range("B62").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeE13a""", ""13a!d62""")"
Range("B64").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeG13a""", ""13a!d64""")"
Range("B65").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeH13a""", ""13a!d65""")"
Range("B63").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeF13a""", ""13a!d63""")"
Range("B66").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeI13a""", ""13a!d66""")"
Range("B67").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeJ13a""", ""13a!d67""")"
Range("B68").Select
ActiveCell.FormulaR1C1 = ""
Range("B69").Select
Sheets("14a").Select
Range("B1").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""Hpp14a""", ""14a!D1""")"
Range("B2").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""PValuepp14a""", ""14a!D2""")"
Range("B3").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""TStatpp14a""", ""14a!D3""")"
Range("B4").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CValuepp14a""", ""14a!D4""")"
Range("B5").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""hdf14a""", ""14a!D5""")"
Range("B6").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuedf14a""", ""14a!D6""")"
Range("B7").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""tStatdf14a""", ""14a!D7""")"
Range("B8").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""cValuedf14a""", ""14a!D8""")"
Range("B9").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HppA14a""", ""14a!D9""")"
Range("B10").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""PValueppA14a""", ""14a!D10""")"
Range("B11").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""TStatppA14a""", ""14a!D11""")"
Range("B12").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CValueppA14a""", ""14a!D12""")"
Range("B13").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""hdfA14a""", ""14a!D13""")"
Range("B14").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuedfA14a""", ""14a!D14""")"
Range("B15").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""tStatdfA14a""", ""14a!D15""")"
Range("B16").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""cValuedfA14a""", ""14a!D16""")"
Range("B17").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HppB14a""", ""14a!D17""")"
Range("B18").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""PValueppB14a""", ""14a!D18""")"
Range("B19").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""TStatppB14a""", ""14a!d19""")"
Range("B20").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CValueppB14a""", ""14a!d20""")"
Range("B21").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""hdfB14a""", ""14a!d21""")"
Range("B22").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuedfB14a""", ""14a!d22""")"
Range("B23").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""tStatdfB14a""", ""14a!d23""")"

Range("B24").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""cValuedfB14a""", ""14a!d24""")"
Range("B25").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CorrA14a""", ""14a!d25""")"
Range("B26").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuecorrA14a""", ""14a!d26""")"
Range("B27").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatcorrA14a""", ""14a!d27""")"
Range("B28").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValuecorrA14a""", ""14a!d28""")"
Range("B29").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HA14a""", ""14a!d29""")"
Range("B30").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValueA14a""", ""14a!d30""")"
Range("B31").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatA14a""", ""14a!d31""")"
Range("B32").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValueA14a""", ""14a!d32""")"
Range("B33").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""P14a""", ""14a!d33""")"
Range("B34").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""DW14a""", ""14a!d34""")"
Range("B35").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CorrB14a""", ""14a!d35""")"
Range("B36").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuecorrB14a""", ""14a!d36""")"
Range("B37").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatcorrB14a""", ""14a!d37""")"
Range("B38").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValuecorrB14a""", ""14a!d38""")"
Range("B39").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HB14a""", ""14a!d39""")"
Range("B40").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValueB14a""", ""14a!d40""")"
Range("B41").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatB14a""", ""14a!d41""")"
Range("B42").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValueB14a""", ""14a!d42""")"
Range("B43").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""T""", ""14a!d43""")"
Range("B44").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""T1""", ""14a!d44""")"
Range("B45").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""AIC14a""", ""14a!d45""")"
Range("B46").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""BIC14a""", ""14a!d46""")"
Range("B47").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""T2""", ""14a!d47""")"
Range("B48").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseA14a""", ""14a!d48""")"
Range("B49").Select

```
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseB14a""", ""14a!d49""")"
Range("B50").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseC14a""", ""14a!d50""")"
Range("B51").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseD14a""", ""14a!d51""")"
Range("B52").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseE14a""", ""14a!d52""")"
Range("B53").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseF14a""", ""14a!d53""")"
Range("B54").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseG14a""", ""14a!d54""")"
Range("B55").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseH14a""", ""14a!d55""")"
Range("B56").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseI14a""", ""14a!d56""")"
Range("B57").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseJ14a""", ""14a!d57""")"
Range("B58").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeA14a""", ""14a!d58""")"
Range("B59").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeB14a""", ""14a!d59""")"
Range("B60").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeC14a""", ""14a!d60""")"
Range("B61").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeD14a""", ""14a!d61""")"
Range("B62").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeE14a""", ""14a!d62""")"
Range("B63").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeF14a""", ""14a!d63""")"
Range("B64").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeG14a""", ""14a!d64""")"
Range("B65").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeH14a""", ""14a!d65""")"
Range("B66").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeI14a""", ""14a!d66""")"
Range("B67").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeJ14a""", ""14a!d67""")"
Range("B68").Select[
```

```
Sheets("21a").Select
```

```
Range("B1").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""Hpp21a""", ""21a!D1""")"
Range("B2").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""PValuepp21a""", ""21a!D2""")"
Range("B3").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""TStatpp21a""", ""21a!D3""")"
Range("B4").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CValuepp21a""", ""21a!D4""")"
Range("B5").Select
```

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""hdf21a""", ""21a!D5""")"
Range("B6").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuedf21a""", ""21a!D6""")"
Range("B7").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""tStatdf21a""", ""21a!D7""")"
Range("B8").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""cValuedf21a""", ""21a!D8""")"
Range("B9").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HppA21a""", ""21a!D9""")"
Range("B10").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""PValueppA21a""", ""21a!D10""")"
Range("B12").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CValueppA21a""", ""21a!D12""")"
Range("B11").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""TStatppA21a""", ""21a!D11""")"
Range("B13").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""hdfA21a""", ""21a!D13""")"
Range("B14").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuedfA21a""", ""21a!D14""")"
Range("B15").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""tStatdfA21a""", ""21a!D15""")"
Range("B16").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""cValuedfA21a""", ""21a!D16""")"
Range("B17").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HppB21a""", ""21a!D17""")"
Range("B18").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""PValueppB21a""", ""21a!D18""")"
Range("B19").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""TStatppB21a""", ""21a!d19""")"
Range("B20").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CValueppB21a""", ""21a!d20""")"
Range("B21").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""hdfB21a""", ""21a!d21""")"
Range("B22").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuedfB21a""", ""21a!d22""")"
Range("B23").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""tStatdfB21a""", ""21a!d23""")"
Range("B24").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""cValuedfB21a""", ""21a!d24""")"
Range("B25").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CorrA21a""", ""21a!d25""")"
Range("B26").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuecorrA21a""", ""21a!d26""")"
Range("B27").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatcorrA21a""", ""21a!d27""")"
Range("B28").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValuecorrA21a""", ""21a!d28""")"
Range("B29").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HA21a""", ""21a!d29""")"
Range("B30").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValueA21a""", ""21a!d30""")"

```
Range("B31").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(StatA21a,21a!d31)"
Range("B32").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(CriticalValueA21a,21a!d32)"
Range("B33").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(P21a,21a!d33)"
Range("B34").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(DW21a,21a!d34)"
Range("B35").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(CorrB21a,21a!d35)"
Range("B36").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(pValuecorrB21a,21a!d36)"
Range("B37").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(StatcorrB21a,21a!d37)"
Range("B38").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(CriticalValuecorrB21a,21a!d38)"
Range("B39").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(HB21a,21a!d39)"
Range("B40").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(pValueB21a,21a!d40)"
Range("B41").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(StatB21a,21a!d41)"
Range("B42").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(CriticalValueB21a,21a!d42)"
Range("B43").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(T,21a!d43)"
Range("B44").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(T1,21a!d44)"
Range("B45").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(AIC21a,21a!d45)"
Range("B46").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(BIC21a,21a!d46)"
Range("B47").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(T2,21a!d47)"
Range("B48").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(mseA21a,21a!d48)"
Range("B49").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(mseB21a,21a!d49)"
Range("B50").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(mseC21a,21a!d50)"
Range("B51").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(mseD21a,21a!d51)"
Range("B52").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(mseE21a,21a!d52)"
Range("B53").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(mseF21a,21a!d53)"
Range("B54").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(mseG21a,21a!d54)"
Range("B55").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(mseH21a,21a!d55)"
Range("B56").Select
```

```
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseI21a""", ""21a!d56"")"
Range("B57").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseJ21a""", ""21a!d57"")"
Range("B58").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeA21a""", ""21a!d58"")"
Range("B59").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeB21a""", ""21a!d59"")"
Range("B60").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeC21a""", ""21a!d60"")"
Range("B61").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeD21a""", ""21a!d61"")"
Range("B62").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeE21a""", ""21a!d62"")"
Range("B63").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeF21a""", ""21a!d63"")"
Range("B64").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeG21a""", ""21a!d64"")"
Range("B65").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeH21a""", ""21a!d65"")"
Range("B66").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeI21a""", ""21a!d66"")"
Range("B67").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeJ21a""", ""21a!d67"")"
Range("B68").Select
```

```
Sheets("22a").Select
```

```
Range("B1").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""Hpp22a""", ""22a!D1"")"
Range("B2").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""PValuepp22a""", ""22a!D2"")"
Range("B3").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""TStatpp22a""", ""22a!D3"")"
Range("B4").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CValuepp22a""", ""22a!D4"")"
Range("B5").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""hdf22a""", ""22a!D5"")"
Range("B6").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuedf22a""", ""22a!D6"")"
Range("B7").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""tStatdf22a""", ""22a!D7"")"
Range("B8").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""cValuedf22a""", ""22a!D8"")"
Range("B9").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HppA22a""", ""22a!D9"")"
Range("B10").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""PValueppA22a""", ""22a!D10"")"
Range("B11").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""TStatppA22a""", ""22a!D11"")"
Range("B12").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CValueppA22a""", ""22a!D12"")"
```

Range("B13").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""hdfA22a""", ""22a!D13""")"
Range("B14").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuedfA22a""", ""22a!D14""")"
Range("B15").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""tStatdfA22a""", ""22a!D15""")"
Range("B16").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""cValuedfA22a""", ""22a!D16""")"
Range("B17").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HppB22a""", ""22a!D17""")"
Range("B18").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""PValueppB22a""", ""22a!D18""")"

Range("B19").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""TStatppB22a""", ""22a!d19""")"
Range("B20").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CValueppB22a""", ""22a!d20""")"
Range("B21").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""hdfB22a""", ""22a!d21""")"
Range("B22").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuedfB22a""", ""22a!d22""")"
Range("B23").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""tStatdfB22a""", ""22a!d23""")"
Range("B24").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""cValuedfB22a""", ""22a!d24""")"
Range("B25").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CorrA22a""", ""22a!d25""")"
Range("B26").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuecorrA22a""", ""22a!d26""")"
Range("B27").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatcorrA22a""", ""22a!d27""")"
Range("B28").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValuecorrA22a""", ""22a!d28""")"
Range("B29").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HA22a""", ""22a!d29""")"
Range("B30").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValueA22a""", ""22a!d30""")"
Range("B31").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatA22a""", ""22a!d31""")"
Range("B32").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValueA22a""", ""22a!d32""")"
Range("B33").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""P22a""", ""22a!d33""")"
Range("B34").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""DW22a""", ""22a!d34""")"
Range("B35").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CorrB22a""", ""22a!d35""")"
Range("B36").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuecorrB22a""", ""22a!d36""")"
Range("B37").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatcorrB22a""", ""22a!d37""")"

Range("B38").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValuecorrB22a""", ""22a!d38""")"

Range("B39").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HB22a""", ""22a!d39""")"

Range("B40").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValueB22a""", ""22a!d40""")"

Range("B41").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatB22a""", ""22a!d41""")"

Range("B42").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValueB22a""", ""22a!d42""")"

Range("B43").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""T""", ""22a!d43""")"

Range("B44").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""T1""", ""22a!d44""")"

Range("B45").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""AIC22a""", ""22a!d45""")"

Range("B46").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""BIC22a""", ""22a!d46""")"

Range("B47").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""T2""", ""22a!d47""")"

Range("B48").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseA22a""", ""22a!d48""")"

Range("B49").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseB22a""", ""22a!d49""")"

Range("B50").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseC22a""", ""22a!d50""")"

Range("B52").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseE22a""", ""22a!d52""")"

Range("B53").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseF22a""", ""22a!d53""")"

Range("B54").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseG22a""", ""22a!d54""")"

Range("B51").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseD22a""", ""22a!d51""")"

Range("B55").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseH22a""", ""22a!d55""")"

Range("B56").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseI22a""", ""22a!d56""")"

Range("B57").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""mseJ22a""", ""22a!d57""")"

Range("B58").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeA22a""", ""22a!d58""")"

Range("B59").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeB22a""", ""22a!d59""")"

Range("B60").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeC22a""", ""22a!d60""")"

Range("B61").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeD22a""", ""22a!d61""")"

Range("B63").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeF22a""", ""22a!d63""")"

Range("B62").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeE22a""", ""22a!d62""")"
Range("B64").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeG22a""", ""22a!d64""")"
Range("B65").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeH22a""", ""22a!d65""")"
Range("B66").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeI22a""", ""22a!d66""")"
Range("B67").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""maeJ22a""", ""22a!d67""")"
Range("B68").Select
Sheets("23a").Select
Range("B1").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""Hpp23a""", ""23a!D1""")"
Range("B2").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""PValuepp23a""", ""23a!D2""")"
Range("B3").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""TStatpp23a""", ""23a!D3""")"
Range("B4").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CValuepp23a""", ""23a!D4""")"
Range("B5").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""hdf23a""", ""23a!D5""")"
Range("B6").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuedf23a""", ""23a!D6""")"
Range("B7").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""tStatdf23a""", ""23a!D7""")"
Range("B8").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""cValuedf23a""", ""23a!D8""")"
Range("B9").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HppA23a""", ""23a!D9""")"
Range("B10").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""PValueppA23a""", ""23a!D10""")"
Range("B11").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""TStatppA23a""", ""23a!D11""")"
Range("B12").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CValueppA23a""", ""23a!D12""")"
Range("B13").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""hdfA23a""", ""23a!D13""")"
Range("B14").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuedfA23a""", ""23a!D14""")"
Range("B15").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""tStatdfA23a""", ""23a!D15""")"
Range("B16").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""cValuedfA23a""", ""23a!D16""")"
Range("B17").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HppB23a""", ""23a!D17""")"
Range("B18").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""PValueppB23a""", ""23a!D18""")"
Range("B19").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""TStatppB23a""", ""23a!d19""")"
Range("B20").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CValueppB23a""", ""23a!d20""")"
Range("B21").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""hdfB23a""", ""23a!d21""")"
Range("B22").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuedfB23a""", ""23a!d22""")"
Range("B23").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""tStatdfB23a""", ""23a!d23""")"
Range("B24").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""cValuedfB23a""", ""23a!d24""")"
Range("B25").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CorrA23a""", ""23a!d25""")"
Range("B26").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuecorrA23a""", ""23a!d26""")"
Range("B27").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatcorrA23a""", ""23a!d27""")"
Range("B28").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValuecorrA23a""", ""23a!d28""")"
Range("B29").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HA23a""", ""23a!d29""")"
Range("B30").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValueA23a""", ""23a!d30""")"
Range("B31").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatA23a""", ""23a!d31""")"
Range("B32").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValueA23a""", ""23a!d32""")"
Range("B33").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""P23a""", ""23a!d33""")"
Range("B34").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""DW23a""", ""23a!d34""")"
Range("B35").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CorrB23a""", ""23a!d35""")"
Range("B36").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValuecorrB23a""", ""23a!d36""")"
Range("B37").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatcorrB23a""", ""23a!d37""")"
Range("B38").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValuecorrB23a""", ""23a!d38""")"
Range("B39").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""HB23a""", ""23a!d39""")"
Range("B40").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""pValueB23a""", ""23a!d40""")"
Range("B41").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""StatB23a""", ""23a!d41""")"
Range("B42").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""CriticalValueB23a""", ""23a!d42""")"
Range("B43").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""T""", ""23a!d43""")"
Range("B44").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""T1""", ""23a!d44""")"
Range("B45").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""AIC23a""", ""23a!d45""")"

```

Range("B46").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix( ""BIC23a"" , ""23a!d46"" )"
Range("B47").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix( ""T2"" , ""23a!d47"" )"
Range("B48").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix( ""mseA23a"" , ""23a!d48"" )"
Range("B49").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix( ""mseB23a"" , ""23a!d49"" )"
Range("B50").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix( ""mseC23a"" , ""23a!d50"" )"
Range("B51").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix( ""mseD23a"" , ""23a!d51"" )"
Range("B52").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix( ""mseE23a"" , ""23a!d52"" )"
Range("B53").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix( ""mseF23a"" , ""23a!d53"" )"
Range("B54").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix( ""mseG23a"" , ""23a!d54"" )"
Range("B55").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix( ""mseH23a"" , ""23a!d55"" )"
Range("B56").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix( ""mseI23a"" , ""23a!d56"" )"
Range("B57").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix( ""mseJ23a"" , ""23a!d57"" )"
Range("B58").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix( ""maeA23a"" , ""23a!d58"" )"
Range("B59").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix( ""maeB23a"" , ""23a!d59"" )"
Range("B60").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix( ""maeC23a"" , ""23a!d60"" )"
Range("B61").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix( ""maeD23a"" , ""23a!d61"" )"
Range("B62").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix( ""maeE23a"" , ""23a!d62"" )"
Range("B63").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix( ""maeF23a"" , ""23a!d63"" )"
Range("B64").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix( ""maeG23a"" , ""23a!d64"" )"
Range("B65").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix( ""maeH23a"" , ""23a!d65"" )"
Range("B66").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix( ""maeI23a"" , ""23a!d66"" )"
Range("B67").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix( ""maeJ23a"" , ""23a!d67"" )"
Range("B68").Select

```

End Sub

Sub vonpiter4()

" vonpiter4 Macro

' Macro gravada em 18/05/2009 por jpietron

" Atalho do teclado: Ctrl+r

Sheets("Plan8").Select

Range("B71").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""previsao11""", ""Plan8!m6""")"

Sheets("12").Select

Range("B72").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""previsao12""", ""12!m6""")"

Sheets("13").Select

Range("B71").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""previsao13""", ""13!m6""")"

Range("B72").Select

Sheets("14").Select

Range("B72").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""previsao14""", ""14!m6""")"

Range("B73").Select

Sheets("21").Select

Range("B72").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""previsao21""", ""21!m6""")"

Range("B73").Select

Sheets("22").Select

Range("B71").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""previsao22""", ""22!m6""")"

Range("B72").Select

Sheets("23").Select

Range("B71").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""previsao23""", ""23!m6""")"

Range("B72").Select

Sheets("24").Select

Range("B72").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""previsao24""", ""24!m6""")"

Range("B73").Select

Sheets("31").Select

Range("B73").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""previsao31""", ""31!m6""")"

Range("B74").Select

Sheets("32").Select

Range("B72").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""previsao32""", ""32!m6""")"

Range("B73").Select

Sheets("33").Select

Range("B72").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""previsao33""", ""33!m6""")"

Range("B73").Select
Sheets("34").Select
Range("B71").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""previsao34"" , ""34!m6"")" "
Range("B72").Select
Sheets("41").Select
Range("B71").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""previsao41"" , ""41!m6"")" "
Range("B72").Select
Sheets("42").Select
Range("B72").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""previsao42"" , ""42!m6"")" "
Range("B73").Select
Sheets("43").Select
Range("B72").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""previsao43"" , ""43!m6"")" "
Range("B73").Select
Sheets("44").Select
Range("B72").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""previsao44"" , ""44!m6"")" "
Range("B73").Select
Sheets("11a").Select
Range("B72").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""previsao11a"" , ""11a!m6"")" "
Range("B73").Select
Sheets("12a").Select
Range("B72").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""previsao12a"" , ""12a!m6"")" "
Range("B73").Select
Sheets("13a").Select
Range("B73").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""previsao13a"" , ""13a!m6"")" "
Range("B74").Select
Sheets("14a").Select
Range("B72").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""previsao14a"" , ""14a!m6"")" "
Range("B73").Select
Sheets("21a").Select
Range("B72").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""previsao21a"" , ""21a!m6"")" "
Range("B73").Select
Sheets("22a").Select
Range("B72").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""previsao22a"" , ""22a!m6"")" "
Range("B73").Select
Sheets("23a").Select
Range("B71").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(""previsao23a"" , ""23a!m6"")" "
Range("B72").Select
Sheets("24a").Select
Range("B72").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""previsao24a""", ""24a!m6""")"
Range("B73").Select
Sheets("31a").Select
Range("B72").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""previsao31a""", ""31a!m6""")"
Range("B73").Select
Sheets("32a").Select
Range("B71").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""previsao32a""", ""32a!m6""")"
Range("B72").Select
Sheets("33a").Select
Range("B71").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""previsao33a""", ""33a!m6""")"
Range("B72").Select
Sheets("34a").Select
Range("B72").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""previsao34a""", ""34a!m6""")"
Range("B73").Select
Sheets("41a").Select
Range("B72").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""previsao41a""", ""41a!m6""")"
Range("B73").Select
Sheets("42a").Select
Range("B72").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""previsao42a""", ""42a!m6""")"
Range("B73").Select
Sheets("43a").Select
Range("B72").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""previsao43a""", ""43a!m6""")"
Range("B73").Select
Sheets("44a").Select
Range("B72").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""previsao44a""", ""44a!m6""")"
Range("B73").Select
Sheets("Plan8").Select
Range("B72").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""returns2""", ""Plan8!l6""")"
Range("B73").Select
Sheets("12").Select
Range("B73").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""returns2""", ""12!l6""")"
Range("B74").Select
Sheets("13").Select
Range("B72").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""returns2""", ""13!l6""")"
Range("B73").Select
Sheets("14").Select
Range("B73").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""returns2""", ""14!l6""")"
Range("B74").Select
Sheets("21").Select

Range("B73").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(returns2,21!l6)"
Range("B74").Select
Sheets("22").Select
Range("B72").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(returns2,22!l6)"
Range("B73").Select
Sheets("23").Select
Range("B72").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(returns2,23!l6)"
Range("B73").Select
Sheets("24").Select
Range("B73").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(returns2,24!l6)"
Range("B74").Select
Sheets("31").Select
Range("B74").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(returns2,31!l6)"
Range("B75").Select
Sheets("32").Select
Range("B73").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(returns2,32!l6)"
Range("B74").Select
Sheets("33").Select
Range("B73").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(returns2,33!l6)"
Range("B74").Select
Sheets("34").Select
Range("B72").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(returns2,34!l6)"
Range("B73").Select
Sheets("41").Select
Range("B72").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(returns2,41!l6)"
Range("B73").Select
Sheets("42").Select
Range("B73").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(returns2,42!l6)"
Range("B74").Select
Sheets("43").Select
Range("B73").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(returns2,43!l6)"
Range("B74").Select
Sheets("44").Select
Range("B73").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(returns2,44!l6)"
Range("B74").Select
Sheets("11a").Select
Range("B73").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(returns2,11a!l6)"
Range("B74").Select

Sheets("12a").Select

Range("B73").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix(returns2,12a!l6)"

Range("B74").Select

Sheets("13a").Select

Range("B74").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix(returns2,13a!l6)"

Range("B75").Select

Sheets("14a").Select

Range("B73").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix(returns2,14a!l6)"

Range("B74").Select

Sheets("21a").Select

Range("B73").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix(returns2,21a!l6)"

Range("B74").Select

Sheets("22a").Select

Range("B73").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix(returns2,22a!l6)"

Range("B74").Select

Sheets("23a").Select

Range("B72").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix(returns2,23a!l6)"

Range("B73").Select

Sheets("24a").Select

Range("B73").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix(returns2,24a!l6)"

Range("B74").Select

Sheets("31a").Select

Range("B73").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix(returns2,31a!l6)"

Range("B74").Select

Sheets("32a").Select

Range("B72").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix(returns2,32a!l6)"

Range("B73").Select

Sheets("33a").Select

Range("B72").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix(returns2,33a!l6)"

Range("B73").Select

Sheets("34a").Select

Range("B73").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix(returns2,34a!l6)"

Range("B74").Select

Sheets("41a").Select

Range("B73").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix(returns2,41a!l6)"

Range("B74").Select

Sheets("42a").Select

Range("B73").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix(returns2,42a!l6)"

Range("B74").Select

Sheets("43a").Select

Range("B73").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix(returns2,43a!l6)"

Range("B74").Select

Sheets("44a").Select

Range("B73").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix(returns2,44a!l6)"

Range("B74").Select

Sheets("Plan8").Select

Range("B73").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix(serie2,Plan8!k6)"

Range("B74").Select

Sheets("12").Select

Range("B74").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix(serie2,12!k6)"

Range("B75").Select

Sheets("13").Select

Range("B73").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix(serie2,13!k6)"
Range("B74").Select
Sheets("14").Select

Range("B74").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix(serie2,14!k6)"
Range("B75").Select
Sheets("21").Select

Range("B74").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix(serie2,21!k6)"
Range("B75").Select
Sheets("22").Select

Range("B73").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix(serie2,22!k6)"
Range("B74").Select
Sheets("23").Select

Range("B73").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix(serie2,23!k6)"
Range("B74").Select
Sheets("24").Select

Range("B74").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix(serie2,24!k6)"
Range("B75").Select
Sheets("31").Select

Range("B75").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix(serie2,31!k6)"
Range("B76").Select
Sheets("32").Select

Range("B74").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix(serie2,32!k6)"
Range("B75").Select
Sheets("33").Select

Range("B74").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix(serie2,33!k6)"
Range("B75").Select
Sheets("34").Select

Range("B73").Select

```
ActiveCell.FormulaR1C1 = "=MIGetMatrix(serie2,34!k6)"
Range("B74").Select
Sheets("41").Select
```

```
Range("B73").Select
```

```
ActiveCell.FormulaR1C1 = "=MIGetMatrix(serie2,41!k6)"
Range("B74").Select
Sheets("42").Select
```

```
Range("B74").Select
```

```
ActiveCell.FormulaR1C1 = "=MIGetMatrix(serie2,42!k6)"
Range("B75").Select
Sheets("43").Select
```

```
Range("B74").Select
```

```
ActiveCell.FormulaR1C1 = "=MIGetMatrix(serie2,43!k6)"
Range("B75").Select
Sheets("44").Select
```

```
Range("B74").Select
```

```
ActiveCell.FormulaR1C1 = "=MIGetMatrix(serie2,44!k6)"
Range("B75").Select
Sheets("11a").Select
```

```
Range("B74").Select
```

```
ActiveCell.FormulaR1C1 = "=MIGetMatrix(serie2,11a!k6)"
Range("B75").Select
Sheets("12a").Select
```

```
Range("B74").Select
```

```
ActiveCell.FormulaR1C1 = "=MIGetMatrix(serie2,12a!k6)"
Range("B75").Select
Sheets("13a").Select
```

```
Range("B75").Select
```

```
ActiveCell.FormulaR1C1 = "=MIGetMatrix(serie2,13a!k6)"
Range("B76").Select
Sheets("14a").Select
```

```
Range("B74").Select
```

```
ActiveCell.FormulaR1C1 = "=MIGetMatrix(serie2,14a!k6)"
Range("B75").Select
Sheets("21a").Select
```

```
Range("B74").Select
```

```
ActiveCell.FormulaR1C1 = "=MIGetMatrix(serie2,21a!k6)"
Range("B75").Select
Sheets("22a").Select
```

```
ActiveCell.FormulaR1C1 = "=MIGetMatrix(serie2,22a!k6)"
Range("B75").Select
Sheets("23a").Select
```

```
Range("B73").Select
```

```
ActiveCell.FormulaR1C1 = "=MIGetMatrix(serie2,23a!k6)"
Range("B74").Select
Sheets("24a").Select
```

```
Range("B74").Select
```

```
ActiveCell.FormulaR1C1 = "=MIGetMatrix(serie2,24a!k6)"
Range("B75").Select
Sheets("31a").Select
```

```
Range("B74").Select
```

```
ActiveCell.FormulaR1C1 = "=MIGetMatrix(serie2,31a!k6)"
Range("B75").Select
Sheets("32a").Select
```

```
Range("B73").Select
```

```
ActiveCell.FormulaR1C1 = "=MIGetMatrix(serie2,32a!k6)"
Range("B74").Select
Sheets("33a").Select
Range("B73").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(serie2,33a!k6)"
```

```
Range("B74").Select
```

```
Sheets("34a").Select
```

```
Range("B74").Select
```

```
ActiveCell.FormulaR1C1 = "=MIGetMatrix(serie2,34a!k6)"
```

```
Range("B75").Select
```

```
Sheets("41a").Select
```

```
Range("B74").Select
```

```
ActiveCell.FormulaR1C1 = "=MIGetMatrix(serie2,41a!k6)"
```

```
Range("B75").Select
```

```
Sheets("42a").Select
```

```
Range("B74").Select
```

```
ActiveCell.FormulaR1C1 = "=MIGetMatrix(serie2,42a!k6)"
```

```
Range("B75").Select
```

```
Sheets("43a").Select
```

```
Range("B74").Select
```

```
ActiveCell.FormulaR1C1 = "=MIGetMatrix(serie2,43a!k6)"
```

```
Range("B75").Select
```

Sheets("44a").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix(serie2,44a!k6)"
Range("B75").Select

Sheets("histmed").Select

Range("B6").SelectActive
Cell.FormulaR1C1 =
"=MIGetMatrix(returns
,histmed!D6)"
Range("B7").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(teste,histmed!C6)"
Range("B8").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(meanreturns,histmed!C5)"
Sheets("histmedsim").Select

Range("B6").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix(returns,histmedsim!D6)"
Range("B7").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(teste,histmedsim!c6)"
Range("B8").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(meanreturns,histmedsim!c5)"

Sheets("svalidbollingsim").Select

Range("C9").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix(returns,svalidbollingsim!G8)"
Range("C10").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(ibov,svalidbollingsim!h8)"
Range("C11").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(meanreturns,svalidbollingsim!h6)"

Sheets("svalidgraficosim").Select

Range("C9").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix(returns,svalidgraficosim!G8)"
Range("C10").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(ibov,svalidgraficosim!h8)"
Range("C11").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(meanreturns,svalidgraficosim!h6)"
Sheets("svalidhistmedsim").Select
Range("C9").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix(returns,svalidhistmedsim!G8)"
Range("C10").Select
ActiveCell.FormulaR1C1 = "=MIGetMatrix(ibov,svalidhistmedsim!h8)"
Range("C11").Select

```
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""meanreturns""", ""svalidhistmedsim!h6""")"
```

```
Sheets("svalidgraficos").Select
```

```
Range("C9").Select
```

```
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""returns""", ""svalidgraficos!G8""")"
```

```
Range("C10").Select
```

```
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""ibov""", ""svalidgraficos!h8""")"
```

```
Range("C11").Select
```

```
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""meanreturns""", ""svalidgraficos!h6""")"
```

```
Sheets("svalidbolling").Select
```

```
Range("C9").Select
```

```
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""returns""", ""svalidbolling!G8""")"
```

```
Range("C10").Select
```

```
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""ibov""", ""svalidbolling!h8""")"
```

```
Range("C11").Select
```

```
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""meanreturns""", ""svalidbolling!h6""")"
```

```
Sheets("svalidhistmed").Select
```

```
Range("C9").Select
```

```
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""returns""", ""svalidhistmed!G8""")"
```

```
Range("C10").Select
```

```
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""ibov""", ""svalidhistmed!h8""")"
```

```
Range("C11").Select
```

```
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""meanreturns""", ""svalidhistmed!h6""")"
```

```
Range("C11").Select
```

```
Sheets("whitegraficos").Select
```

```
Range("C9").Select
```

```
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""returns""", ""whitegraficos!g8""")"
```

```
Range("C10").Select
```

```
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""ibov""", ""whitegraficos!h8""")"
```

```
Range("C11").Select
```

```
ActiveCell.FormulaR1C1 = "=MIGetMatrix("""meanreturns""", ""whitegraficos!h6""")"
```

```
Range("I8").Select
```

```
Selection.AutoFill Destination:=Range("I8:I2800"), Type:=xlFillDefault
```

```
Range("I8:I2800").Select
```

```
Selection.Copy
```

```
Range("I8").Select
```

```
Selection.PasteSpecial Paste:=xlPasteValues, Operation:=xlNone, SkipBlanks _
```

```
:=False, Transpose:=False
```

```
Selection.Replace What:="0", Replacement:="", LookAt:=xlWhole, _
```

```
SearchOrder:=xlByRows, MatchCase:=False, SearchFormat:=False, _
```

```
ReplaceFormat:=False
```

Range("I8:I2800").Select

Selection.Copy

Sheets("whitegraficosim").Select

Range("i8").Select ActiveSheet.Paste

Sheets("whitebolling").Select

Range("i8").Select

ActiveSheet.Paste

Sheets("whitebollingsim").Select

Range("i8").Select ActiveSheet.Paste

Sheets("whitehistmed").Select

Range("i8").Select ActiveSheet.Paste

Sheets("whitehistmedsim").Select

Range("i8").Select ActiveSheet.Paste

Sheets("whitegraficosim").Select

Range("C10").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""ibov""", ""whitegraficosim!h8""")"

Range("C11").Select

Sheets("whitebolling").Select

Range("C10").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""ibov""", ""whitebolling!h8""")"

Range("C11").Select

Sheets("whitebollingsim").Select

Range("C10").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""ibov""", ""whitebollingsim!h8""")"

Range("C11").Select

Sheets("whitehistmed").Select

Range("C10").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""ibov""", ""whitehistmed!h8""")"

Range("C11").Select

Sheets("whitehistmedsim").Select

Range("C10").Select

ActiveCell.FormulaR1C1 = "=MIGetMatrix("""ibov""", ""whitehistmedsim!h8""")"

Range("C11").Select

Sheets("bolling").Select

Range("D25").Select

Range(Selection, Selection.End(xlToRight)).Select

Range(Selection, Selection.End(xlToRight)).Select

Range(Selection, Selection.End(xlUp)).Select

Selection.ClearContents

Selection.ClearContents

Sheets("bollingsim").Select

Range("D25").Select

Range(Selection, Selection.End(xlToRight)).Select

Range(Selection, Selection.End(xlToRight)).Select

Range(Selection, Selection.End(xlUp)).Select

Selection.ClearContents

Selection.ClearContents

```
Sheets("XX").Select
Range("C18:IV25").Select
Selection.Copy
Sheets("bolling").Select
Range("C18").Select
ActiveSheet.Paste
Sheets("bollingsim").Select
Range("C18").Select
ActiveSheet.Paste
Application.CutCopyMode = False
```

```
Sheets("XX").Select
Range("BJ26:IV32").Select
Selection.Copy
Sheets("bolling").Select
Range("BJ26").Select
ActiveSheet.Paste
Sheets("bollingsim").Select
Range("BJ26").Select
ActiveSheet.Paste
Application.CutCopyMode = False
```

```
Sheets("svalidgraficos").Select
```

```
Range("I8").Select
```

```
Selection.AutoFill Destination:=Range("I8:I2800"), Type:=xlFillDefault
```

```
Range("I8:I2800").Select
Selection.Copy
Range("I8").Select
Selection.PasteSpecial Paste:=xlPasteValues, Operation:=xlNone, SkipBlanks _
:=False, Transpose:=False
```

```
Selection.Replace What:="0", Replacement:="", LookAt:=xlWhole, _
SearchOrder:=xlByRows, MatchCase:=False, SearchFormat:=False, _
ReplaceFormat:=False
Range("H6").Select
Selection.Copy
Range("I8:I2800").Select
Selection.Replace What:="0", Replacement:="", LookAt:=xlWhole, _
SearchOrder:=xlByRows, MatchCase:=False, SearchFormat:=False, _
ReplaceFormat:=False
```

```
Sheets("svalidgraficosim").Select
```

```
Range("I8").Select
Selection.AutoFill Destination:=Range("I8:I2800"), Type:=xlFillDefault
Range("I8:I2800").Select
Selection.Copy
Range("I8").Select
Selection.PasteSpecial Paste:=xlPasteValues, Operation:=xlNone, SkipBlanks _
:=False, Transpose:=False
```

```
Selection.Replace What:="0", Replacement:="", LookAt:=xlWhole, _
```



```
SearchOrder:=xlByRows, MatchCase:=False, SearchFormat:=False, _  
ReplaceFormat:=False  
Range("H6").Select  
Selection.Copy  
Range("I8:I2800").Select  
Selection.Replace What:="0", Replacement:="", LookAt:=xlWhole, _
```

```
SearchOrder:=xlByRows, MatchCase:=False, SearchFormat:=False, _  
ReplaceFormat:=False
```

```
Sheets("svalidbolling").Select
```

```
Range("I8").Select  
Selection.AutoFill Destination:=Range("I8:I2800"), Type:=xlFillDefault  
Range("I8:I2800").Select  
Selection.Copy  
Range("I8").Select  
Selection.PasteSpecial Paste:=xlPasteValues, Operation:=xlNone, SkipBlanks _  
:=False, Transpose:=False  
Selection.Replace What:="0", Replacement:="", LookAt:=xlWhole, _  
SearchOrder:=xlByRows, MatchCase:=False, SearchFormat:=False, _  
ReplaceFormat:=False  
Range("H6").Select  
Selection.Copy  
Range("I8:I2800").Select  
Selection.Replace What:="0", Replacement:="", LookAt:=xlWhole, _  
SearchOrder:=xlByRows, MatchCase:=False, SearchFormat:=False, _  
ReplaceFormat:=False  
Sheets("svalidbollingsim").Select
```

```
Range("I8").Select  
Selection.AutoFill Destination:=Range("I8:I2800"), Type:=xlFillDefault  
Range("I8:I2800").Select  
Selection.Copy  
Range("I8").Select  
Selection.PasteSpecial Paste:=xlPasteValues, Operation:=xlNone, SkipBlanks _
```

```
:=False, Transpose:=False
```

```
Selection.Replace What:="0", Replacement:="", LookAt:=xlWhole, _  
SearchOrder:=xlByRows, MatchCase:=False, SearchFormat:=False, _  
ReplaceFormat:=False  
Range("H6").Select  
Selection.Copy  
Range("I8:I2800").Select  
Selection.Replace What:="0", Replacement:="", LookAt:=xlWhole, _  
SearchOrder:=xlByRows, MatchCase:=False, SearchFormat:=False, _  
ReplaceFormat:=False
```

```
Sheets("svalidhistmed").Select
```

```
Range("I8").Select  
Selection.AutoFill Destination:=Range("I8:I2800"), Type:=xlFillDefault
```

```

Range("I8:I2800").Select
Selection.Copy
Range("I8").Select
Selection.PasteSpecial Paste:=xlPasteValues, Operation:=xlNone, SkipBlanks _
:=False, Transpose:=False
Selection.Replace What:="0", Replacement:="", LookAt:=xlWhole, _
SearchOrder:=xlByRows, MatchCase:=False, SearchFormat:=False, _
ReplaceFormat:=False
Range("H6").Select
Selection.Copy
Range("I8:I2800").Select

Selection.Replace What:="0", Replacement:="", LookAt:=xlWhole, _
SearchOrder:=xlByRows, MatchCase:=False, SearchFormat:=False, _
ReplaceFormat:=False

Sheets("svalidhistmedsim").Select

Range("I8").Select
Selection.AutoFill Destination:=Range("I8:I2800"), Type:=xlFillDefault
Range("I8:I2800").Select
Selection.Copy
Range("I8").Select
Selection.PasteSpecial Paste:=xlPasteValues, Operation:=xlNone, SkipBlanks _
:=False, Transpose:=False
Selection.Replace What:="0", Replacement:="", LookAt:=xlWhole, _
SearchOrder:=xlByRows, MatchCase:=False, SearchFormat:=False, _
ReplaceFormat:=False
Range("H6").Select
Selection.Copy
Range("I8:I2800").Select
Selection.Replace What:="0", Replacement:="", LookAt:=xlWhole, _
SearchOrder:=xlByRows, MatchCase:=False, SearchFormat:=False, _
ReplaceFormat:=False
End Sub

Sub vonpiter5()

' vonpiter5 Macro

' Macro gravada em 01/06/2009 por jpietron
,
' Atalho do teclado: Ctrl+h

'Sheets("Plan8").Select

Range("X7").Select

Selection.AutoFill Destination:=Range("X7:X2800")
Range("X7:X2800").Select
Range("Y7").Select

```

Selection.AutoFill Destination:=Range("Y7:Y2800")
Range("Y7:Y2800").Select
Range("Z7").Select

Selection.AutoFill Destination:=Range("Z7:Z2800")
Range("Z7:Z2800").Select
Range("AA7").Select

Selection.AutoFill Destination:=Range("AA7:AA2800")
Range("AA7:AA2800").Select
Range("AB7").Select

Selection.AutoFill Destination:=Range("AB7:AB2800")
Range("AB7:AB2800").Select
Range("AC7").Select

Selection.AutoFill Destination:=Range("AC7:AC2800")
Range("AC7:AC2800").Select
Range("AD7").Select

Selection.AutoFill Destination:=Range("AD7:AD2800")
Range("AD7:AD2800").Select
Range("AE7").Select

Selection.AutoFill Destination:=Range("AE7:AE2800")
Range("AE7:AE2800").Select
Range("AF7").Select

Selection.AutoFill Destination:=Range("AF7:AF2800")
Range("AF7:AF2800").Select
Range("AG7").Select

Selection.AutoFill Destination:=Range("AG7:AG2800")
Range("AG7:AG2800").Select
Range("AH7").Select
Selection.AutoFill Destination:=Range("AH7:AH2800")
Range("AH7:AH2800").Select
Range("AI7").Select

Selection.AutoFill Destination:=Range("AI7:AI2800")
Range("AI7:AI2800").Select
Range("AJ7").Select

Selection.AutoFill Destination:=Range("AJ7:AJ2800")
Range("AJ7:AJ2800").Select
Range("AK7").Select

Selection.AutoFill Destination:=Range("AK7:AK2800")
Range("AK7:AK2800").Select
Range("AL7").Select

Selection.AutoFill Destination:=Range("AL7:AL2800")
Range("AL7:AL2800").Select
Range("AM7").Select

Selection.AutoFill Destination:=Range("AM7:AM2800")
Range("AM7:AM2800").Select

Range("AN7").Select
Selection.AutoFill Destination:=Range("AN7:AN2800")
Range("AN7:AN2800").Select
Range("AO7").Select
Selection.AutoFill Destination:=Range("AO7:AO2800")
Range("AO7:AO2800").Select
Range("AP7").Select
Selection.AutoFill Destination:=Range("AP7:AP2800")
Range("AP7:AP2800").Select
Range("AQ7").Select
Selection.AutoFill Destination:=Range("AQ7:AQ2800")
Range("AQ7:AQ2800").Select
Range("AR7").Select
Selection.AutoFill Destination:=Range("AR7:AR2800")
Range("AR7:AR2800").Select
Range("AS7").Select
Selection.AutoFill Destination:=Range("AS7:AS2800")
Range("AS7:AS2800").Select
Range("AT7").Select
Selection.AutoFill Destination:=Range("AT7:AT2800")
Range("AT7:AT2800").Select
Range("AU7").Select
Selection.AutoFill Destination:=Range("AU7:AU2800")
Range("AU7:AU2800").Select
Range("AV7").Select
Selection.AutoFill Destination:=Range("AV7:AV2800")
Range("AV7:AV2800").Select
Range("AW7").Select
Selection.AutoFill Destination:=Range("AW7:AW2800")
Range("AW7:AW2800").Select
Range("AX7").Select
Selection.AutoFill Destination:=Range("AX7:AX2800")
Range("AX7:AX2800").Select
Range("AY7").Select
Selection.AutoFill Destination:=Range("AY7:AY2800")
Range("AY7:AY2800").Select
Range("AZ7").Select

Selection.AutoFill Destination:=Range("AZ7:AZ2800")
Range("AZ7:AZ2800").Select
Range("BA7").Select

Selection.AutoFill Destination:=Range("BA7:BA2800")
Range("BA7:BA2800").Select
Range("BB7").Select

Selection.AutoFill Destination:=Range("BB7:BB2800")
Range("BB7:BB2800").Select
Range("BC7").Select

Selection.AutoFill Destination:=Range("BC7:BC2800")
Range("BC7:BC2800").Select

Range("BD7").Select

Selection.AutoFill Destination:=Range("BD7:BD2800")

Range("BD7:BD2800").Select

Range("BE7").Select

Selection.AutoFill Destination:=Range("BE7:BE2800")

Range("BE7:BE2800").Select

Range("BF7").Select

Selection.AutoFill Destination:=Range("BF7:BF2800")

Range("BF7:BF2800").Select

Range("BG7").Select

Selection.AutoFill Destination:=Range("BG7:BG2800")

Range("BG7:BG2800").Select

Range("BH7").Select

Selection.AutoFill Destination:=Range("BH7:BH2800")

Range("BH7:BH2800").Select

Range("BI7").Select

Selection.AutoFill Destination:=Range("BI7:BI2800")

Range("BI7:BI2800").Select

Range("BJ7").Select

Selection.AutoFill Destination:=Range("BJ7:BJ2800")

Range("BJ7:BJ2800").Select

Range("BK7").Select

Selection.AutoFill Destination:=Range("BK7:BK2800")

Range("BK7:BK2800").Select

Range("BL7").Select

Selection.AutoFill Destination:=Range("BL7:BL2800")

Range("BL7:BL2800").Select

Range("BM7").Select

Selection.AutoFill Destination:=Range("BM7:BM2800")

Range("BM7:BM2800").Select

Range("BN7").Select

Selection.AutoFill Destination:=Range("BN7:BN2800")

Range("BN7:BN2800").Select

Range("BO7").Select

Selection.AutoFill Destination:=Range("BO7:BO2800")

Range("BO7:BO2800").Select

Range("BP7").Select

Selection.AutoFill Destination:=Range("BP7:BP2800")

Range("BP7:BP2800").Select

Range("M6").Select

Range("AG2900").Select

Selection.AutoFill Destination:=Range("AG2900:AG4304")
Range("AG2900:AG4304").Select
Range("AH2900").Select
Selection.AutoFill Destination:=Range("AH2900:AH4304")
Range("AH2900:AH4304").Select
Range("AI2900").Select
Selection.AutoFill Destination:=Range("AI2900:AI4304")
Range("AI2900:AI4304").Select
Range("AJ2900").Select
Selection.AutoFill Destination:=Range("AJ2900:AJ4304")
Range("AJ2900:AJ4304").Select
Range("AK2900").Select
Selection.AutoFill Destination:=Range("AK2900:AK4304")
Range("AK2900:AK4304").Select
Range("AL2900").Select
Selection.AutoFill Destination:=Range("AL2900:AL4304")
Range("AL2900:AL4304").Select
Range("AM2900").Select
Selection.AutoFill Destination:=Range("AM2900:AM4304")
Range("AM2900:AM4304").Select
Range("AN2900").Select
Selection.AutoFill Destination:=Range("AN2900:AN4304")
Range("AN2900:AN4304").Select
Range("AO2900").Select
Selection.AutoFill Destination:=Range("AO2900:AO4304")
Range("AO2900:AO4304").Select
Range("AP2900").Select
Selection.AutoFill Destination:=Range("AP2900:AP4304")
Range("AP2900:AP4304").Select
Range("AQ2900").Select
Selection.AutoFill Destination:=Range("AQ2900:AQ4304")
Range("AQ2900:AQ4304").Select
Range("AR2900").Select
Selection.AutoFill Destination:=Range("AR2900:AR4304")
Range("AR2900:AR4304").Select
Range("AS2900").Select
Selection.AutoFill Destination:=Range("AS2900:AS4304")
Range("AS2900:AS4304").Select
Range("AT2900").Select
Selection.AutoFill Destination:=Range("AT2900:AT4304")
Range("AT2900:AT4304").Select
Range("AU2900").Select
Selection.AutoFill Destination:=Range("AU2900:AU4304")
Range("AU2900:AU4304").Select
Range("AV2900").Select

Selection.AutoFill Destination:=Range("AV2900:AV4304")
Range("AV2900:AV4304").Select
Range("AW2900").Select

Selection.AutoFill Destination:=Range("AW2900:AW4304")
Range("AW2900:AW4304").Select

Range("AX2900").Select

Selection.AutoFill Destination:=Range("AX2900:AX4304")

Range("AX2900:AX4304").Select

Range("Y2").Select

Sheets("12").Select

Range("X7").Select

Selection.AutoFill Destination:=Range("X7:X2800")

Range("X7:X2800").Select

Range("Y7").Select

Selection.AutoFill Destination:=Range("Y7:Y2800")

Range("Y7:Y2800").Select

Range("Z7").Select

Selection.AutoFill Destination:=Range("Z7:Z2800")

Range("Z7:Z2800").Select

Range("AA7").Select

Selection.AutoFill Destination:=Range("AA7:AA2800")

Range("AA7:AA2800").Select

Range("AB7").Select

Selection.AutoFill Destination:=Range("AB7:AB2800")

Range("AB7:AB2800").Select

Range("AC7").Select

Selection.AutoFill Destination:=Range("AC7:AC2800")

Range("AC7:AC2800").Select

Range("AD7").Select

Selection.AutoFill Destination:=Range("AD7:AD2800")

Range("AD7:AD2800").Select

Range("AE7").Select

Selection.AutoFill Destination:=Range("AE7:AE2800")

Range("AE7:AE2800").Select

Range("AF7").Select

Selection.AutoFill Destination:=Range("AF7:AF2800")

Range("AF7:AF2800").Select

Range("AG7").Select

Selection.AutoFill Destination:=Range("AG7:AG2800")

Range("AG7:AG2800").Select

Range("AH7").Select

Selection.AutoFill Destination:=Range("AH7:AH2800")

Range("AH7:AH2800").Select

Range("AI7").Select

Selection.AutoFill Destination:=Range("A17:A12800")
Range("A17:A12800").Select
Range("AJ7").Select
Selection.AutoFill Destination:=Range("AJ7:AJ2800")
Range("AJ7:AJ2800").Select
Range("AK7").Select
Selection.AutoFill Destination:=Range("AK7:AK2800")
Range("AK7:AK2800").Select
Range("AL7").Select
Selection.AutoFill Destination:=Range("AL7:AL2800")
Range("AL7:AL2800").Select
Range("AM7").Select
Selection.AutoFill Destination:=Range("AM7:AM2800")
Range("AM7:AM2800").Select
Range("AN7").Select
Selection.AutoFill Destination:=Range("AN7:AN2800")
Range("AN7:AN2800").Select
Range("AO7").Select
Selection.AutoFill Destination:=Range("AO7:AO2800")
Range("AO7:AO2800").Select
Range("AP7").Select
Selection.AutoFill Destination:=Range("AP7:AP2800")
Range("AP7:AP2800").Select
Range("AQ7").Select
Selection.AutoFill Destination:=Range("AQ7:AQ2800")
Range("AQ7:AQ2800").Select
Range("AR7").Select
Selection.AutoFill Destination:=Range("AR7:AR2800")
Range("AR7:AR2800").Select
Range("AS7").Select
Selection.AutoFill Destination:=Range("AS7:AS2800")
Range("AS7:AS2800").Select
Range("AT7").Select
Selection.AutoFill Destination:=Range("AT7:AT2800")
Range("AT7:AT2800").Select
Range("AU7").Select
Selection.AutoFill Destination:=Range("AU7:AU2800")
Range("AU7:AU2800").Select
Range("AV7").Select
Selection.AutoFill Destination:=Range("AV7:AV2800")
Range("AV7:AV2800").Select
Range("AW7").Select
Selection.AutoFill Destination:=Range("AW7:AW2800")
Range("AW7:AW2800").Select
Range("AX7").Select
Selection.AutoFill Destination:=Range("AX7:AX2800")
Range("AX7:AX2800").Select
Range("AY7").Select
Selection.AutoFill Destination:=Range("AY7:AY2800")
Range("AY7:AY2800").Select
Range("AZ7").Select

Selection.AutoFill Destination:=Range("AZ7:AZ2800")
Range("AZ7:AZ2800").Select
Range("BA7").Select

Selection.AutoFill Destination:=Range("BA7:BA2800")
Range("BA7:BA2800").Select
Range("BB7").Select

Selection.AutoFill Destination:=Range("BB7:BB2800")
Range("BB7:BB2800").Select
Range("BC7").Select

Selection.AutoFill Destination:=Range("BC7:BC2800")
Range("BC7:BC2800").Select
Range("BD7").Select

Selection.AutoFill Destination:=Range("BD7:BD2800")
Range("BD7:BD2800").Select
Range("BE7").Select

Selection.AutoFill Destination:=Range("BE7:BE2800")
Range("BE7:BE2800").Select
Range("BF7").Select

Selection.AutoFill Destination:=Range("BF7:BF2800")
Range("BF7:BF2800").Select
Range("BG7").Select

Selection.AutoFill Destination:=Range("BG7:BG2800")
Range("BG7:BG2800").Select
Range("BH7").Select

Selection.AutoFill Destination:=Range("BH7:BH2800")
Range("BH7:BH2800").Select
Range("BI7").Select

Selection.AutoFill Destination:=Range("BI7:BI2800")
Range("BI7:BI2800").Select
Range("BJ7").Select

Selection.AutoFill Destination:=Range("BJ7:BJ2800")
Range("BJ7:BJ2800").Select
Range("BK7").Select

Selection.AutoFill Destination:=Range("BK7:BK2800")
Range("BK7:BK2800").Select
Range("BL7").Select

Selection.AutoFill Destination:=Range("BL7:BL2800")
Range("BL7:BL2800").Select
Range("BM7").Select

Selection.AutoFill Destination:=Range("BM7:BM2800")
Range("BM7:BM2800").Select
Range("BN7").Select

Selection.AutoFill Destination:=Range("BN7:BN2800")
Range("BN7:BN2800").Select
Range("BO7").Select

Selection.AutoFill Destination:=Range("BO7:BO2800")
Range("BO7:BO2800").Select
Range("BP7").Select
Selection.AutoFill Destination:=Range("BP7:BP2800")
Range("BP7:BP2800").Select
Range("M6").Select
Range("AG2900").Select
Selection.AutoFill Destination:=Range("AG2900:AG4304")
Range("AG2900:AG4304").Select
Range("AH2900").Select
Selection.AutoFill Destination:=Range("AH2900:AH4304")
Range("AH2900:AH4304").Select
Range("AI2900").Select
Selection.AutoFill Destination:=Range("AI2900:AI4304")
Range("AI2900:AI4304").Select
Range("AJ2900").Select
Selection.AutoFill Destination:=Range("AJ2900:AJ4304")
Range("AJ2900:AJ4304").Select
Range("AK2900").Select
Selection.AutoFill Destination:=Range("AK2900:AK4304")
Range("AK2900:AK4304").Select
Range("AL2900").Select
Selection.AutoFill Destination:=Range("AL2900:AL4304")
Range("AL2900:AL4304").Select
Range("AM2900").Select
Selection.AutoFill Destination:=Range("AM2900:AM4304")
Range("AM2900:AM4304").Select
Range("AN2900").Select
Selection.AutoFill Destination:=Range("AN2900:AN4304")
Range("AN2900:AN4304").Select
Range("AO2900").Select
Selection.AutoFill Destination:=Range("AO2900:AO4304")
Range("AO2900:AO4304").Select
Range("AP2900").Select
Selection.AutoFill Destination:=Range("AP2900:AP4304")
Range("AP2900:AP4304").Select
Range("AQ2900").Select
Selection.AutoFill Destination:=Range("AQ2900:AQ4304")
Range("AQ2900:AQ4304").Select
Range("AR2900").Select
Selection.AutoFill Destination:=Range("AR2900:AR4304")
Range("AR2900:AR4304").Select
Range("AS2900").Select
Selection.AutoFill Destination:=Range("AS2900:AS4304")

```
Range("AS2900:AS4304").Select
Range("AT2900").Select
Selection.AutoFill Destination:=Range("AT2900:AT4304")
Range("AT2900:AT4304").Select
Range("AU2900").Select

Selection.AutoFill Destination:=Range("AU2900:AU4304")
Range("AU2900:AU4304").Select
Range("AV2900").Select

Selection.AutoFill Destination:=Range("AV2900:AV4304")
Range("AV2900:AV4304").Select
Range("AW2900").Select

Selection.AutoFill Destination:=Range("AW2900:AW4304")
Range("AW2900:AW4304").Select
Range("AX2900").Select

Selection.AutoFill Destination:=Range("AX2900:AX4304")
Range("AX2900:AX4304").Select
Range("Y2").Select
```

End Sub

Sub vonpiter6()

" vonpiter6 Macro

' Macro gravada em 01/06/2009 por jpietron

,

' Atalho do teclado: Ctrl+k

'Sheets("13").Select

Range("X7").Select

Selection.AutoFill Destination:=Range("X7:X2800")

Range("X7:X2800").Select

Range("Y7").Select

Selection.AutoFill Destination:=Range("Y7:Y2800")

Range("Y7:Y2800").Select

Range("Z7").Select

Selection.AutoFill Destination:=Range("Z7:Z2800")

Range("Z7:Z2800").Select

Range("AA7").Select

Selection.AutoFill Destination:=Range("AA7:AA2800")

Range("AA7:AA2800").Select

Range("AB7").Select

Selection.AutoFill Destination:=Range("AB7:AB2800")
Range("AB7:AB2800").Select
Range("AC7").Select

Selection.AutoFill Destination:=Range("AC7:AC2800")
Range("AC7:AC2800").Select
Range("AD7").Select

Selection.AutoFill Destination:=Range("AD7:AD2800")
Range("AD7:AD2800").Select
Range("AE7").Select

Selection.AutoFill Destination:=Range("AE7:AE2800")
Range("AE7:AE2800").Select
Range("AF7").Select

Selection.AutoFill Destination:=Range("AF7:AF2800")
Range("AF7:AF2800").Select
Range("AG7").Select

Selection.AutoFill Destination:=Range("AG7:AG2800")
Range("AG7:AG2800").Select
Range("AH7").Select

Selection.AutoFill Destination:=Range("AH7:AH2800")
Range("AH7:AH2800").Select
Range("AI7").Select

Selection.AutoFill Destination:=Range("AI7:AI2800")
Range("AI7:AI2800").Select
Range("AJ7").Select

Selection.AutoFill Destination:=Range("AJ7:AJ2800")
Range("AJ7:AJ2800").Select
Range("AK7").Select

Selection.AutoFill Destination:=Range("AK7:AK2800")
Range("AK7:AK2800").Select
Range("AL7").Select

Selection.AutoFill Destination:=Range("AL7:AL2800")
Range("AL7:AL2800").Select
Range("AM7").Select

Selection.AutoFill Destination:=Range("AM7:AM2800")
Range("AM7:AM2800").Select
Range("AN7").Select

Selection.AutoFill Destination:=Range("AN7:AN2800")
Range("AN7:AN2800").Select
Range("AO7").Select

Selection.AutoFill Destination:=Range("AO7:AO2800")
Range("AO7:AO2800").Select
Range("AP7").Select

Selection.AutoFill Destination:=Range("AP7:AP2800")
Range("AP7:AP2800").Select
Range("AQ7").Select

Selection.AutoFill Destination:=Range("AQ7:AQ2800")
Range("AQ7:AQ2800").Select
Range("AR7").Select

Selection.AutoFill Destination:=Range("AR7:AR2800")
Range("AR7:AR2800").Select
Range("AS7").Select

Selection.AutoFill Destination:=Range("AS7:AS2800")
Range("AS7:AS2800").Select
Range("AT7").Select

Selection.AutoFill Destination:=Range("AT7:AT2800")
Range("AT7:AT2800").Select
Range("AU7").Select

Selection.AutoFill Destination:=Range("AU7:AU2800")
Range("AU7:AU2800").Select
Range("AV7").Select

Selection.AutoFill Destination:=Range("AV7:AV2800")
Range("AV7:AV2800").Select
Range("AW7").Select

Selection.AutoFill Destination:=Range("AW7:AW2800")
Range("AW7:AW2800").Select
Range("AX7").Select

Selection.AutoFill Destination:=Range("AX7:AX2800")
Range("AX7:AX2800").Select
Range("AY7").Select

Selection.AutoFill Destination:=Range("AY7:AY2800")
Range("AY7:AY2800").Select
Range("AZ7").Select

Selection.AutoFill Destination:=Range("AZ7:AZ2800")
Range("AZ7:AZ2800").Select
Range("BA7").Select

Selection.AutoFill Destination:=Range("BA7:BA2800")
Range("BA7:BA2800").Select
Range("BB7").Select

Selection.AutoFill Destination:=Range("BB7:BB2800")

Range("BB7:BB2800").Select
Range("BC7").Select

Selection.AutoFill Destination:=Range("BC7:BC2800")
Range("BC7:BC2800").Select
Range("BD7").Select

Selection.AutoFill Destination:=Range("BD7:BD2800")
Range("BD7:BD2800").Select
Range("BE7").Select

Selection.AutoFill Destination:=Range("BE7:BE2800")
Range("BE7:BE2800").Select
Range("BF7").Select

Selection.AutoFill Destination:=Range("BF7:BF2800")
Range("BF7:BF2800").Select
Range("BG7").Select

Selection.AutoFill Destination:=Range("BG7:BG2800")
Range("BG7:BG2800").Select
Range("BH7").Select

Selection.AutoFill Destination:=Range("BH7:BH2800")
Range("BH7:BH2800").Select
Range("BI7").Select

Selection.AutoFill Destination:=Range("BI7:BI2800")
Range("BI7:BI2800").Select
Range("BJ7").Select

Selection.AutoFill Destination:=Range("BJ7:BJ2800")
Range("BJ7:BJ2800").Select
Range("BK7").Select

Selection.AutoFill Destination:=Range("BK7:BK2800")
Range("BK7:BK2800").Select
Range("BL7").Select

Selection.AutoFill Destination:=Range("BL7:BL2800")
Range("BL7:BL2800").Select
Range("BM7").Select

Selection.AutoFill Destination:=Range("BM7:BM2800")
Range("BM7:BM2800").Select
Range("BN7").Select

Selection.AutoFill Destination:=Range("BN7:BN2800")
Range("BN7:BN2800").Select
Range("BO7").Select

Selection.AutoFill Destination:=Range("BO7:BO2800")

Range("B07:B02800").Select
Range("BP7").Select

Selection.AutoFill Destination:=Range("BP7:BP2800")
Range("BP7:BP2800").Select
Range("M6").Select

Range("AG2900").Select

Selection.AutoFill Destination:=Range("AG2900:AG4304")
Range("AG2900:AG4304").Select
Range("AH2900").Select

Selection.AutoFill Destination:=Range("AH2900:AH4304")
Range("AH2900:AH4304").Select
Range("AI2900").Select

Selection.AutoFill Destination:=Range("AI2900:AI4304")
Range("AI2900:AI4304").Select
Range("AJ2900").Select

Selection.AutoFill Destination:=Range("AJ2900:AJ4304")
Range("AJ2900:AJ4304").Select
Range("AK2900").Select

Selection.AutoFill Destination:=Range("AK2900:AK4304")
Range("AK2900:AK4304").Select
Range("AL2900").Select

Selection.AutoFill Destination:=Range("AL2900:AL4304")
Range("AL2900:AL4304").Select
Range("AM2900").Select

Selection.AutoFill Destination:=Range("AM2900:AM4304")
Range("AM2900:AM4304").Select
Range("AN2900").Select

Selection.AutoFill Destination:=Range("AN2900:AN4304")
Range("AN2900:AN4304").Select
Range("AO2900").Select

Selection.AutoFill Destination:=Range("AO2900:AO4304")
Range("AO2900:AO4304").Select
Range("AP2900").Select

Selection.AutoFill Destination:=Range("AP2900:AP4304")
Range("AP2900:AP4304").Select
Range("AQ2900").Select

Selection.AutoFill Destination:=Range("AQ2900:AQ4304")
Range("AQ2900:AQ4304").Select
Range("AR2900").Select

Selection.AutoFill Destination:=Range("AR2900:AR4304")
Range("AR2900:AR4304").Select
Range("AS2900").Select

Selection.AutoFill Destination:=Range("AS2900:AS4304")
Range("AS2900:AS4304").Select
Range("AT2900").Select

Selection.AutoFill Destination:=Range("AT2900:AT4304")
Range("AT2900:AT4304").Select
Range("AU2900").Select

Selection.AutoFill Destination:=Range("AU2900:AU4304")
Range("AU2900:AU4304").Select
Range("AV2900").Select

Selection.AutoFill Destination:=Range("AV2900:AV4304")
Range("AV2900:AV4304").Select
Range("AW2900").Select
Selection.AutoFill Destination:=Range("AW2900:AW4304")
Range("AW2900:AW4304").Select
Range("AX2900").Select

Selection.AutoFill Destination:=Range("AX2900:AX4304")
Range("AX2900:AX4304").Select
Range("Y2").Select

Sheets("14").Select

Range("X7").Select

Selection.AutoFill Destination:=Range("X7:X2800")
Range("X7:X2800").Select
Range("Y7").Select

Selection.AutoFill Destination:=Range("Y7:Y2800")
Range("Y7:Y2800").Select
Range("Z7").Select

Selection.AutoFill Destination:=Range("Z7:Z2800")
Range("Z7:Z2800").Select
Range("AA7").Select

Selection.AutoFill Destination:=Range("AA7:AA2800")
Range("AA7:AA2800").Select
Range("AB7").Select

Selection.AutoFill Destination:=Range("AB7:AB2800")
Range("AB7:AB2800").Select
Range("AC7").Select

Selection.AutoFill Destination:=Range("AC7:AC2800")
Range("AC7:AC2800").Select

Range("AD7").Select

Selection.AutoFill Destination:=Range("AD7:AD2800")

Range("AD7:AD2800").Select

Range("AE7").Select

Selection.AutoFill Destination:=Range("AE7:AE2800")

Range("AE7:AE2800").Select

Range("AF7").Select

Selection.AutoFill Destination:=Range("AF7:AF2800")

Range("AF7:AF2800").Select

Range("AG7").Select

Selection.AutoFill Destination:=Range("AG7:AG2800")

Range("AG7:AG2800").Select

Range("AH7").Select

Selection.AutoFill Destination:=Range("AH7:AH2800")

Range("AH7:AH2800").Select

Range("AI7").Select

Selection.AutoFill Destination:=Range("AI7:AI2800")

Range("AI7:AI2800").Select

Range("AJ7").Select

Selection.AutoFill Destination:=Range("AJ7:AJ2800")

Range("AJ7:AJ2800").Select

Range("AK7").Select

Selection.AutoFill Destination:=Range("AK7:AK2800")

Range("AK7:AK2800").Select

Range("AL7").Select

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Range("AL7:AL2800").Select

Range("AM7").Select

Selection.AutoFill Destination:=Range("AM7:AM2800")

Range("AM7:AM2800").Select

Range("AN7").Select

Selection.AutoFill Destination:=Range("AN7:AN2800")

Range("AN7:AN2800").Select

Range("AO7").Select

Selection.AutoFill Destination:=Range("AO7:AO2800")

Range("AO7:AO2800").Select

Range("AP7").Select

Selection.AutoFill Destination:=Range("AP7:AP2800")

Range("AP7:AP2800").Select

Range("AQ7").Select

Selection.AutoFill Destination:=Range("AQ7:AQ2800")

Range("AQ7:AQ2800").Select

Range("AR7").Select

Selection.AutoFill Destination:=Range("AR7:AR2800")

Range("AR7:AR2800").Select

Range("AS7").Select

Selection.AutoFill Destination:=Range("AS7:AS2800")

Range("AS7:AS2800").Select

Range("AT7").Select

Selection.AutoFill Destination:=Range("AT7:AT2800")

Range("AT7:AT2800").Select

Range("AU7").Select

Selection.AutoFill Destination:=Range("AU7:AU2800")

Range("AU7:AU2800").Select

Range("AV7").Select

Selection.AutoFill Destination:=Range("AV7:AV2800")

Range("AV7:AV2800").Select

Range("AW7").Select

Selection.AutoFill Destination:=Range("AW7:AW2800")

Range("AW7:AW2800").Select

Range("AX7").Select

Selection.AutoFill Destination:=Range("AX7:AX2800")

Range("AX7:AX2800").Select

Range("AY7").Select

Selection.AutoFill Destination:=Range("AY7:AY2800")

Range("AY7:AY2800").Select

Range("AZ7").Select

Selection.AutoFill Destination:=Range("AZ7:AZ2800")

Range("AZ7:AZ2800").Select

Range("BA7").Select

Selection.AutoFill Destination:=Range("BA7:BA2800")

Range("BA7:BA2800").Select

Range("BB7").Select

Selection.AutoFill Destination:=Range("BB7:BB2800")

Range("BB7:BB2800").Select

Range("BC7").Select

Selection.AutoFill Destination:=Range("BC7:BC2800")

Range("BC7:BC2800").Select

Range("BD7").Select

Selection.AutoFill Destination:=Range("BD7:BD2800")
Range("BD7:BD2800").Select
Range("BE7").Select

Selection.AutoFill Destination:=Range("BE7:BE2800")
Range("BE7:BE2800").Select
Range("BF7").Select

Selection.AutoFill Destination:=Range("BF7:BF2800")
Range("BF7:BF2800").Select
Range("BG7").Select

Selection.AutoFill Destination:=Range("BG7:BG2800")
Range("BG7:BG2800").Select
Range("BH7").Select

Selection.AutoFill Destination:=Range("BH7:BH2800")
Range("BH7:BH2800").Select
Range("BI7").Select

Selection.AutoFill Destination:=Range("BI7:BI2800")
Range("BI7:BI2800").Select
Range("BJ7").Select

Selection.AutoFill Destination:=Range("BJ7:BJ2800")
Range("BJ7:BJ2800").Select
Range("BK7").Select

Selection.AutoFill Destination:=Range("BK7:BK2800")
Range("BK7:BK2800").Select
Range("BL7").Select

Selection.AutoFill Destination:=Range("BL7:BL2800")
Range("BL7:BL2800").Select
Range("BM7").Select

Selection.AutoFill Destination:=Range("BM7:BM2800")
Range("BM7:BM2800").Select
Range("BN7").Select

Selection.AutoFill Destination:=Range("BN7:BN2800")
Range("BN7:BN2800").Select
Range("BO7").Select

Selection.AutoFill Destination:=Range("BO7:BO2800")
Range("BO7:BO2800").Select
Range("BP7").Select

Selection.AutoFill Destination:=Range("BP7:BP2800")
Range("BP7:BP2800").Select
Range("M6").Select

Range("AG2900").Select
Selection.AutoFill Destination:=Range("AG2900:AG4304")
Range("AG2900:AG4304").Select
Range("AH2900").Select

Selection.AutoFill Destination:=Range("AH2900:AH4304")
Range("AH2900:AH4304").Select
Range("AI2900").Select

Selection.AutoFill Destination:=Range("AI2900:AI4304")
Range("AI2900:AI4304").Select
Range("AJ2900").Select

Selection.AutoFill Destination:=Range("AJ2900:AJ4304")
Range("AJ2900:AJ4304").Select
Range("AK2900").Select

Selection.AutoFill Destination:=Range("AK2900:AK4304")
Range("AK2900:AK4304").Select
Range("AL2900").Select

Selection.AutoFill Destination:=Range("AL2900:AL4304")
Range("AL2900:AL4304").Select
Range("AM2900").Select

Selection.AutoFill Destination:=Range("AM2900:AM4304")
Range("AM2900:AM4304").Select
Range("AN2900").Select

Selection.AutoFill Destination:=Range("AN2900:AN4304")
Range("AN2900:AN4304").Select
Range("AO2900").Select

Selection.AutoFill Destination:=Range("AO2900:AO4304")
Range("AO2900:AO4304").Select
Range("AP2900").Select

Selection.AutoFill Destination:=Range("AP2900:AP4304")
Range("AP2900:AP4304").Select
Range("AQ2900").Select

Selection.AutoFill Destination:=Range("AQ2900:AQ4304")
Range("AQ2900:AQ4304").Select
Range("AR2900").Select

Selection.AutoFill Destination:=Range("AR2900:AR4304")
Range("AR2900:AR4304").Select
Range("AS2900").Select

Selection.AutoFill Destination:=Range("AS2900:AS4304")
Range("AS2900:AS4304").Select

Range("AT2900").Select

Selection.AutoFill Destination:=Range("AT2900:AT4304")

Range("AT2900:AT4304").Select

Range("AU2900").Select

Selection.AutoFill Destination:=Range("AU2900:AU4304")

Range("AU2900:AU4304").Select

Range("AV2900").Select

Selection.AutoFill Destination:=Range("AV2900:AV4304")

Range("AV2900:AV4304").Select

Range("AW2900").Select

Selection.AutoFill Destination:=Range("AW2900:AW4304")

Range("AW2900:AW4304").Select

Range("AX2900").Select

Selection.AutoFill Destination:=Range("AX2900:AX4304")

Range("AX2900:AX4304").Select

Range("Y2").Select

Sheets("21").Select

Range("X7").Select

Selection.AutoFill Destination:=Range("X7:X2800")

Range("X7:X2800").Select

Range("Y7").Select

Selection.AutoFill Destination:=Range("Y7:Y2800")

Range("Y7:Y2800").Select

Range("Z7").Select

Selection.AutoFill Destination:=Range("Z7:Z2800")

Range("Z7:Z2800").Select

Range("AA7").Select

Selection.AutoFill Destination:=Range("AA7:AA2800")

Range("AA7:AA2800").Select

Range("AB7").Select

Selection.AutoFill Destination:=Range("AB7:AB2800")

Range("AB7:AB2800").Select

Range("AC7").Select

Selection.AutoFill Destination:=Range("AC7:AC2800")

Range("AC7:AC2800").Select

Range("AD7").Select

Selection.AutoFill Destination:=Range("AD7:AD2800")

Range("AD7:AD2800").Select

Range("AE7").Select

Selection.AutoFill Destination:=Range("AE7:AE2800")

Range("AE7:AE2800").Select
Range("AF7").Select

Selection.AutoFill Destination:=Range("AF7:AF2800")
Range("AF7:AF2800").Select
Range("AG7").Select

Selection.AutoFill Destination:=Range("AG7:AG2800")
Range("AG7:AG2800").Select
Range("AH7").Select

Selection.AutoFill Destination:=Range("AH7:AH2800")
Range("AH7:AH2800").Select
Range("AI7").Select
Selection.AutoFill Destination:=Range("AI7:AI2800")
Range("AI7:AI2800").Select
Range("AJ7").Select

Selection.AutoFill Destination:=Range("AJ7:AJ2800")
Range("AJ7:AJ2800").Select
Range("AK7").Select

Selection.AutoFill Destination:=Range("AK7:AK2800")
Range("AK7:AK2800").Select
Range("AL7").Select

Selection.AutoFill Destination:=Range("AL7:AL2800")
Range("AL7:AL2800").Select
Range("AM7").Select

Selection.AutoFill Destination:=Range("AM7:AM2800")
Range("AM7:AM2800").Select
Range("AN7").Select

Selection.AutoFill Destination:=Range("AN7:AN2800")
Range("AN7:AN2800").Select
Range("AO7").Select

Selection.AutoFill Destination:=Range("AO7:AO2800")
Range("AO7:AO2800").Select
Range("AP7").Select

Selection.AutoFill Destination:=Range("AP7:AP2800")
Range("AP7:AP2800").Select
Range("AQ7").Select

Selection.AutoFill Destination:=Range("AQ7:AQ2800")
Range("AQ7:AQ2800").Select
Range("AR7").Select

Selection.AutoFill Destination:=Range("AR7:AR2800")
Range("AR7:AR2800").Select
Range("AS7").Select

Selection.AutoFill Destination:=Range("AS7:AS2800")
Range("AS7:AS2800").Select
Range("AT7").Select

Selection.AutoFill Destination:=Range("AT7:AT2800")
Range("AT7:AT2800").Select
Range("AU7").Select

Selection.AutoFill Destination:=Range("AU7:AU2800")
Range("AU7:AU2800").Select
Range("AV7").Select

Selection.AutoFill Destination:=Range("AV7:AV2800")
Range("AV7:AV2800").Select
Range("AW7").Select

Selection.AutoFill Destination:=Range("AW7:AW2800")
Range("AW7:AW2800").Select
Range("AX7").Select

Selection.AutoFill Destination:=Range("AX7:AX2800")
Range("AX7:AX2800").Select
Range("AY7").Select

Selection.AutoFill Destination:=Range("AY7:AY2800")
Range("AY7:AY2800").Select
Range("AZ7").Select

Selection.AutoFill Destination:=Range("AZ7:AZ2800")
Range("AZ7:AZ2800").Select
Range("BA7").Select

Selection.AutoFill Destination:=Range("BA7:BA2800")
Range("BA7:BA2800").Select
Range("BB7").Select

Selection.AutoFill Destination:=Range("BB7:BB2800")
Range("BB7:BB2800").Select
Range("BC7").Select

Selection.AutoFill Destination:=Range("BC7:BC2800")
Range("BC7:BC2800").Select
Range("BD7").Select

Selection.AutoFill Destination:=Range("BD7:BD2800")
Range("BD7:BD2800").Select
Range("BE7").Select

Selection.AutoFill Destination:=Range("BE7:BE2800")
Range("BE7:BE2800").Select
Range("BF7").Select

Selection.AutoFill Destination:=Range("BF7:BF2800")
Range("BF7:BF2800").Select

Range("BG7").Select

Selection.AutoFill Destination:=Range("BG7:BG2800")

Range("BG7:BG2800").Select

Range("BH7").Select

Selection.AutoFill Destination:=Range("BH7:BH2800")

Range("BH7:BH2800").Select

Range("BI7").Select

Selection.AutoFill Destination:=Range("BI7:BI2800")

Range("BI7:BI2800").Select

Range("BJ7").Select

Selection.AutoFill Destination:=Range("BJ7:BJ2800")

Range("BJ7:BJ2800").Select

Range("BK7").Select

Selection.AutoFill Destination:=Range("BK7:BK2800")

Range("BK7:BK2800").Select

Range("BL7").Select

Selection.AutoFill Destination:=Range("BL7:BL2800")

Range("BL7:BL2800").Select

Range("BM7").Select

Selection.AutoFill Destination:=Range("BM7:BM2800")

Range("BM7:BM2800").Select

Range("BN7").Select

Selection.AutoFill Destination:=Range("BN7:BN2800")

Range("BN7:BN2800").Select

Range("BO7").Select

Selection.AutoFill Destination:=Range("BO7:BO2800")

Range("BO7:BO2800").Select

Range("BP7").Select

Selection.AutoFill Destination:=Range("BP7:BP2800")

Range("BP7:BP2800").Select

Range("M6").Select

Range("AG2900").Select

Selection.AutoFill Destination:=Range("AG2900:AG4304")

Range("AG2900:AG4304").Select

Range("AH2900").Select

Selection.AutoFill Destination:=Range("AH2900:AH4304")

Range("AH2900:AH4304").Select

Range("AI2900").Select

Selection.AutoFill Destination:=Range("AI2900:AI4304")

Range("AI2900:AI4304").Select
Range("AJ2900").Select

Selection.AutoFill Destination:=Range("AJ2900:AJ4304")
Range("AJ2900:AJ4304").Select
Range("AK2900").Select

Selection.AutoFill Destination:=Range("AK2900:AK4304")
Range("AK2900:AK4304").Select
Range("AL2900").Select
Selection.AutoFill Destination:=Range("AL2900:AL4304")
Range("AL2900:AL4304").Select
Range("AM2900").Select

Selection.AutoFill Destination:=Range("AM2900:AM4304")
Range("AM2900:AM4304").Select
Range("AN2900").Select

Selection.AutoFill Destination:=Range("AN2900:AN4304")
Range("AN2900:AN4304").Select
Range("AO2900").Select

Selection.AutoFill Destination:=Range("AO2900:AO4304")
Range("AO2900:AO4304").Select
Range("AP2900").Select

Selection.AutoFill Destination:=Range("AP2900:AP4304")
Range("AP2900:AP4304").Select
Range("AQ2900").Select

Selection.AutoFill Destination:=Range("AQ2900:AQ4304")
Range("AQ2900:AQ4304").Select
Range("AR2900").Select

Selection.AutoFill Destination:=Range("AR2900:AR4304")
Range("AR2900:AR4304").Select
Range("AS2900").Select

Selection.AutoFill Destination:=Range("AS2900:AS4304")
Range("AS2900:AS4304").Select
Range("AT2900").Select

Selection.AutoFill Destination:=Range("AT2900:AT4304")
Range("AT2900:AT4304").Select
Range("AU2900").Select

Selection.AutoFill Destination:=Range("AU2900:AU4304")
Range("AU2900:AU4304").Select
Range("AV2900").Select

Selection.AutoFill Destination:=Range("AV2900:AV4304")
Range("AV2900:AV4304").Select
Range("AW2900").Select

Selection.AutoFill Destination:=Range("AW2900:AW4304")
Range("AW2900:AW4304").Select
Range("AX2900").Select

Selection.AutoFill Destination:=Range("AX2900:AX4304")
Range("AX2900:AX4304").Select
Range("Y2").Select

Sheets("22").Select

Range("X7").Select

Selection.AutoFill Destination:=Range("X7:X2800")
Range("X7:X2800").Select
Range("Y7").Select

Selection.AutoFill Destination:=Range("Y7:Y2800")
Range("Y7:Y2800").Select
Range("Z7").Select

Selection.AutoFill Destination:=Range("Z7:Z2800")
Range("Z7:Z2800").Select
Range("AA7").Select

Selection.AutoFill Destination:=Range("AA7:AA2800")
Range("AA7:AA2800").Select
Range("AB7").Select

Selection.AutoFill Destination:=Range("AB7:AB2800")
Range("AB7:AB2800").Select
Range("AC7").Select

Selection.AutoFill Destination:=Range("AC7:AC2800")
Range("AC7:AC2800").Select
Range("AD7").Select

Selection.AutoFill Destination:=Range("AD7:AD2800")
Range("AD7:AD2800").Select
Range("AE7").Select

Selection.AutoFill Destination:=Range("AE7:AE2800")
Range("AE7:AE2800").Select
Range("AF7").Select

Selection.AutoFill Destination:=Range("AF7:AF2800")
Range("AF7:AF2800").Select
Range("AG7").Select

Selection.AutoFill Destination:=Range("AG7:AG2800")
Range("AG7:AG2800").Select
Range("AH7").Select

Selection.AutoFill Destination:=Range("AH7:AH2800")
Range("AH7:AH2800").Select
Range("AI7").Select

Selection.AutoFill Destination:=Range("AI7:AI2800")
Range("AI7:AI2800").Select
Range("AJ7").Select

Selection.AutoFill Destination:=Range("AJ7:AJ2800")
Range("AJ7:AJ2800").Select
Range("AK7").Select

Selection.AutoFill Destination:=Range("AK7:AK2800")
Range("AK7:AK2800").Select
Range("AL7").Select

Selection.AutoFill Destination:=Range("AL7:AL2800")
Range("AL7:AL2800").Select
Range("AM7").Select

Selection.AutoFill Destination:=Range("AM7:AM2800")
Range("AM7:AM2800").Select
Range("AN7").Select

Selection.AutoFill Destination:=Range("AN7:AN2800")
Range("AN7:AN2800").Select
Range("AO7").Select

Selection.AutoFill Destination:=Range("AO7:AO2800")
Range("AO7:AO2800").Select
Range("AP7").Select

Selection.AutoFill Destination:=Range("AP7:AP2800")
Range("AP7:AP2800").Select
Range("AQ7").Select

Selection.AutoFill Destination:=Range("AQ7:AQ2800")
Range("AQ7:AQ2800").Select
Range("AR7").Select

Selection.AutoFill Destination:=Range("AR7:AR2800")
Range("AR7:AR2800").Select
Range("AS7").Select

Selection.AutoFill Destination:=Range("AS7:AS2800")
Range("AS7:AS2800").Select
Range("AT7").Select

Selection.AutoFill Destination:=Range("AT7:AT2800")
Range("AT7:AT2800").Select
Range("AU7").Select

Selection.AutoFill Destination:=Range("AU7:AU2800")

Range("AU7:AU2800").Select
Range("AV7").Select

Selection.AutoFill Destination:=Range("AV7:AV2800")
Range("AV7:AV2800").Select
Range("AW7").Select

Selection.AutoFill Destination:=Range("AW7:AW2800")
Range("AW7:AW2800").Select
Range("AX7").Select

Selection.AutoFill Destination:=Range("AX7:AX2800")
Range("AX7:AX2800").Select
Range("AY7").Select

Selection.AutoFill Destination:=Range("AY7:AY2800")
Range("AY7:AY2800").Select
Range("AZ7").Select

Selection.AutoFill Destination:=Range("AZ7:AZ2800")
Range("AZ7:AZ2800").Select
Range("BA7").Select

Selection.AutoFill Destination:=Range("BA7:BA2800")
Range("BA7:BA2800").Select
Range("BB7").Select

Selection.AutoFill Destination:=Range("BB7:BB2800")
Range("BB7:BB2800").Select
Range("BC7").Select

Selection.AutoFill Destination:=Range("BC7:BC2800")
Range("BC7:BC2800").Select
Range("BD7").Select

Selection.AutoFill Destination:=Range("BD7:BD2800")
Range("BD7:BD2800").Select
Range("BE7").Select

Selection.AutoFill Destination:=Range("BE7:BE2800")
Range("BE7:BE2800").Select
Range("BF7").Select

Selection.AutoFill Destination:=Range("BF7:BF2800")
Range("BF7:BF2800").Select
Range("BG7").Select

Selection.AutoFill Destination:=Range("BG7:BG2800")
Range("BG7:BG2800").Select
Range("BH7").Select

Selection.AutoFill Destination:=Range("BH7:BH2800")

Range("BH7:BH2800").Select
Range("BI7").Select

Selection.AutoFill Destination:=Range("BI7:BI2800")
Range("BI7:BI2800").Select
Range("BJ7").Select

Selection.AutoFill Destination:=Range("BJ7:BJ2800")
Range("BJ7:BJ2800").Select
Range("BK7").Select

Selection.AutoFill Destination:=Range("BK7:BK2800")
Range("BK7:BK2800").Select
Range("BL7").Select

Selection.AutoFill Destination:=Range("BL7:BL2800")
Range("BL7:BL2800").Select
Range("BM7").Select

Selection.AutoFill Destination:=Range("BM7:BM2800")
Range("BM7:BM2800").Select
Range("BN7").Select

Selection.AutoFill Destination:=Range("BN7:BN2800")
Range("BN7:BN2800").Select
Range("BO7").Select

Selection.AutoFill Destination:=Range("BO7:BO2800")
Range("BO7:BO2800").Select
Range("BP7").Select

Selection.AutoFill Destination:=Range("BP7:BP2800")
Range("BP7:BP2800").Select
Range("M6").Select

Range("AG2900").Select
Selection.AutoFill Destination:=Range("AG2900:AG4304")
Range("AG2900:AG4304").Select
Range("AH2900").Select

Selection.AutoFill Destination:=Range("AH2900:AH4304")
Range("AH2900:AH4304").Select
Range("AI2900").Select

Selection.AutoFill Destination:=Range("AI2900:AI4304")
Range("AI2900:AI4304").Select
Range("AJ2900").Select

Selection.AutoFill Destination:=Range("AJ2900:AJ4304")
Range("AJ2900:AJ4304").Select
Range("AK2900").Select

Selection.AutoFill Destination:=Range("AK2900:AK4304")

Range("AK2900:AK4304").Select
Range("AL2900").Select

Selection.AutoFill Destination:=Range("AL2900:AL4304")
Range("AL2900:AL4304").Select
Range("AM2900").Select

Selection.AutoFill Destination:=Range("AM2900:AM4304")
Range("AM2900:AM4304").Select
Range("AN2900").Select

Selection.AutoFill Destination:=Range("AN2900:AN4304")
Range("AN2900:AN4304").Select
Range("AO2900").Select

Selection.AutoFill Destination:=Range("AO2900:AO4304")
Range("AO2900:AO4304").Select
Range("AP2900").Select

Selection.AutoFill Destination:=Range("AP2900:AP4304")
Range("AP2900:AP4304").Select
Range("AQ2900").Select

Selection.AutoFill Destination:=Range("AQ2900:AQ4304")
Range("AQ2900:AQ4304").Select
Range("AR2900").Select

Selection.AutoFill Destination:=Range("AR2900:AR4304")
Range("AR2900:AR4304").Select
Range("AS2900").Select

Selection.AutoFill Destination:=Range("AS2900:AS4304")
Range("AS2900:AS4304").Select
Range("AT2900").Select

Selection.AutoFill Destination:=Range("AT2900:AT4304")
Range("AT2900:AT4304").Select
Range("AU2900").Select

Selection.AutoFill Destination:=Range("AU2900:AU4304")
Range("AU2900:AU4304").Select
Range("AV2900").Select

Selection.AutoFill Destination:=Range("AV2900:AV4304")
Range("AV2900:AV4304").Select
Range("AW2900").Select

Selection.AutoFill Destination:=Range("AW2900:AW4304")
Range("AW2900:AW4304").Select
Range("AX2900").Select

Selection.AutoFill Destination:=Range("AX2900:AX4304")
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Range("Y2").Select

Sheets("23").Select

Range("X7").Select

Selection.AutoFill Destination:=Range("X7:X2800")

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Range("Y7").Select

Selection.AutoFill Destination:=Range("Y7:Y2800")

Range("Y7:Y2800").Select

Range("Z7").Select

Selection.AutoFill Destination:=Range("Z7:Z2800")

Range("Z7:Z2800").Select

Range("AA7").Select

Selection.AutoFill Destination:=Range("AA7:AA2800")

Range("AA7:AA2800").Select

Range("AB7").Select

Selection.AutoFill Destination:=Range("AB7:AB2800")

Range("AB7:AB2800").Select

Range("AC7").Select

Selection.AutoFill Destination:=Range("AC7:AC2800")

Range("AC7:AC2800").Select

Range("AD7").Select

Selection.AutoFill Destination:=Range("AD7:AD2800")

Range("AD7:AD2800").Select

Range("AE7").Select

Selection.AutoFill Destination:=Range("AE7:AE2800")

Range("AE7:AE2800").Select

Range("AF7").Select

Selection.AutoFill Destination:=Range("AF7:AF2800")

Range("AF7:AF2800").Select

Range("AG7").Select

Selection.AutoFill Destination:=Range("AG7:AG2800")

Range("AG7:AG2800").Select

Range("AH7").Select

Selection.AutoFill Destination:=Range("AH7:AH2800")

Range("AH7:AH2800").Select

Range("AI7").Select

Selection.AutoFill Destination:=Range("AI7:AI2800")

Range("AI7:AI2800").Select

Range("AJ7").Select

Selection.AutoFill Destination:=Range("AJ7:AJ2800")
Range("AJ7:AJ2800").Select
Range("AK7").Select

Selection.AutoFill Destination:=Range("AK7:AK2800")
Range("AK7:AK2800").Select
Range("AL7").Select

Selection.AutoFill Destination:=Range("AL7:AL2800")
Range("AL7:AL2800").Select
Range("AM7").Select

Selection.AutoFill Destination:=Range("AM7:AM2800")
Range("AM7:AM2800").Select
Range("AN7").Select

Selection.AutoFill Destination:=Range("AN7:AN2800")
Range("AN7:AN2800").Select
Range("AO7").Select

Selection.AutoFill Destination:=Range("AO7:AO2800")
Range("AO7:AO2800").Select
Range("AP7").Select

Selection.AutoFill Destination:=Range("AP7:AP2800")
Range("AP7:AP2800").Select
Range("AQ7").Select

Selection.AutoFill Destination:=Range("AQ7:AQ2800")
Range("AQ7:AQ2800").Select
Range("AR7").Select

Selection.AutoFill Destination:=Range("AR7:AR2800")
Range("AR7:AR2800").Select
Range("AS7").Select

Selection.AutoFill Destination:=Range("AS7:AS2800")
Range("AS7:AS2800").Select
Range("AT7").Select

Selection.AutoFill Destination:=Range("AT7:AT2800")
Range("AT7:AT2800").Select
Range("AU7").Select

Selection.AutoFill Destination:=Range("AU7:AU2800")
Range("AU7:AU2800").Select
Range("AV7").Select

Selection.AutoFill Destination:=Range("AV7:AV2800")
Range("AV7:AV2800").Select
Range("AW7").Select

Selection.AutoFill Destination:=Range("AW7:AW2800")
Range("AW7:AW2800").Select
Range("AX7").Select

Selection.AutoFill Destination:=Range("AX7:AX2800")
Range("AX7:AX2800").Select
Range("AY7").Select

Selection.AutoFill Destination:=Range("AY7:AY2800")
Range("AY7:AY2800").Select
Range("AZ7").Select

Selection.AutoFill Destination:=Range("AZ7:AZ2800")
Range("AZ7:AZ2800").Select
Range("BA7").Select

Selection.AutoFill Destination:=Range("BA7:BA2800")
Range("BA7:BA2800").Select
Range("BB7").Select

Selection.AutoFill Destination:=Range("BB7:BB2800")
Range("BB7:BB2800").Select
Range("BC7").Select

Selection.AutoFill Destination:=Range("BC7:BC2800")
Range("BC7:BC2800").Select
Range("BD7").Select

Selection.AutoFill Destination:=Range("BD7:BD2800")
Range("BD7:BD2800").Select
Range("BE7").Select

Selection.AutoFill Destination:=Range("BE7:BE2800")
Range("BE7:BE2800").Select
Range("BF7").Select

Selection.AutoFill Destination:=Range("BF7:BF2800")
Range("BF7:BF2800").Select
Range("BG7").Select

Selection.AutoFill Destination:=Range("BG7:BG2800")
Range("BG7:BG2800").Select
Range("BH7").Select

Selection.AutoFill Destination:=Range("BH7:BH2800")
Range("BH7:BH2800").Select
Range("BI7").Select

Selection.AutoFill Destination:=Range("BI7:BI2800")
Range("BI7:BI2800").Select
Range("BJ7").Select

Selection.AutoFill Destination:=Range("BJ7:BJ2800")

Range("BJ7:BJ2800").Select
Range("BK7").Select

Selection.AutoFill Destination:=Range("BK7:BK2800")
Range("BK7:BK2800").Select
Range("BL7").Select

Selection.AutoFill Destination:=Range("BL7:BL2800")
Range("BL7:BL2800").Select
Range("BM7").Select

Selection.AutoFill Destination:=Range("BM7:BM2800")
Range("BM7:BM2800").Select
Range("BN7").Select

Selection.AutoFill Destination:=Range("BN7:BN2800")
Range("BN7:BN2800").Select
Range("BO7").Select

Selection.AutoFill Destination:=Range("BO7:BO2800")
Range("BO7:BO2800").Select
Range("BP7").Select

Selection.AutoFill Destination:=Range("BP7:BP2800")
Range("BP7:BP2800").Select
Range("M6").Select
Range("AG2900").Select

Selection.AutoFill Destination:=Range("AG2900:AG4304")
Range("AG2900:AG4304").Select
Range("AH2900").Select

Selection.AutoFill Destination:=Range("AH2900:AH4304")
Range("AH2900:AH4304").Select
Range("AI2900").Select

Selection.AutoFill Destination:=Range("AI2900:AI4304")
Range("AI2900:AI4304").Select
Range("AJ2900").Select

Selection.AutoFill Destination:=Range("AJ2900:AJ4304")
Range("AJ2900:AJ4304").Select
Range("AK2900").Select

Selection.AutoFill Destination:=Range("AK2900:AK4304")
Range("AK2900:AK4304").Select
Range("AL2900").Select

Selection.AutoFill Destination:=Range("AL2900:AL4304")
Range("AL2900:AL4304").Select
Range("AM2900").Select

Selection.AutoFill Destination:=Range("AM2900:AM4304")

Range("AM2900:AM4304").Select
Range("AN2900").Select

Selection.AutoFill Destination:=Range("AN2900:AN4304")
Range("AN2900:AN4304").Select
Range("AO2900").Select

Selection.AutoFill Destination:=Range("AO2900:AO4304")
Range("AO2900:AO4304").Select
Range("AP2900").Select

Selection.AutoFill Destination:=Range("AP2900:AP4304")
Range("AP2900:AP4304").Select
Range("AQ2900").Select

Selection.AutoFill Destination:=Range("AQ2900:AQ4304")
Range("AQ2900:AQ4304").Select
Range("AR2900").Select

Selection.AutoFill Destination:=Range("AR2900:AR4304")
Range("AR2900:AR4304").Select
Range("AS2900").Select

Selection.AutoFill Destination:=Range("AS2900:AS4304")
Range("AS2900:AS4304").Select
Range("AT2900").Select

Selection.AutoFill Destination:=Range("AT2900:AT4304")
Range("AT2900:AT4304").Select
Range("AU2900").Select

Selection.AutoFill Destination:=Range("AU2900:AU4304")
Range("AU2900:AU4304").Select
Range("AV2900").Select

Selection.AutoFill Destination:=Range("AV2900:AV4304")
Range("AV2900:AV4304").Select
Range("AW2900").Select

Selection.AutoFill Destination:=Range("AW2900:AW4304")
Range("AW2900:AW4304").Select
Range("AX2900").Select

Selection.AutoFill Destination:=Range("AX2900:AX4304")
Range("AX2900:AX4304").Select
Range("Y2").Select

Sheets("24").Select

Range("X7").Select

Selection.AutoFill Destination:=Range("X7:X2800")
Range("X7:X2800").Select
Range("Y7").Select

Selection.AutoFill Destination:=Range("Y7:Y2800")
Range("Y7:Y2800").Select
Range("Z7").Select

Selection.AutoFill Destination:=Range("Z7:Z2800")
Range("Z7:Z2800").Select
Range("AA7").Select

Selection.AutoFill Destination:=Range("AA7:AA2800")
Range("AA7:AA2800").Select
Range("AB7").Select

Selection.AutoFill Destination:=Range("AB7:AB2800")
Range("AB7:AB2800").Select
Range("AC7").Select

Selection.AutoFill Destination:=Range("AC7:AC2800")
Range("AC7:AC2800").Select

Range("AD7").Select

Selection.AutoFill Destination:=Range("AD7:AD2800")
Range("AD7:AD2800").Select
Range("AE7").Select

Selection.AutoFill Destination:=Range("AE7:AE2800")
Range("AE7:AE2800").Select
Range("AF7").Select

Selection.AutoFill Destination:=Range("AF7:AF2800")
Range("AF7:AF2800").Select
Range("AG7").Select

Selection.AutoFill Destination:=Range("AG7:AG2800")
Range("AG7:AG2800").Select
Range("AH7").Select

Selection.AutoFill Destination:=Range("AH7:AH2800")
Range("AH7:AH2800").Select
Range("AI7").Select

Selection.AutoFill Destination:=Range("AI7:AI2800")
Range("AI7:AI2800").Select
Range("AJ7").Select

Selection.AutoFill Destination:=Range("AJ7:AJ2800")
Range("AJ7:AJ2800").Select
Range("AK7").Select

Selection.AutoFill Destination:=Range("AK7:AK2800")
Range("AK7:AK2800").Select
Range("AL7").Select

Selection.AutoFill Destination:=Range("AL7:AL2800")
Range("AL7:AL2800").Select
Range("AM7").Select

Selection.AutoFill Destination:=Range("AM7:AM2800")
Range("AM7:AM2800").Select
Range("AN7").Select

Selection.AutoFill Destination:=Range("AN7:AN2800")
Range("AN7:AN2800").Select
Range("AO7").Select

Selection.AutoFill Destination:=Range("AO7:AO2800")
Range("AO7:AO2800").Select
Range("AP7").Select

Selection.AutoFill Destination:=Range("AP7:AP2800")
Range("AP7:AP2800").Select

Range("AQ7").Select

Selection.AutoFill Destination:=Range("AQ7:AQ2800")

Range("AQ7:AQ2800").Select

Range("AR7").Select

Selection.AutoFill Destination:=Range("AR7:AR2800")

Range("AR7:AR2800").Select

Range("AS7").Select

Selection.AutoFill Destination:=Range("AS7:AS2800")

Range("AS7:AS2800").Select

Range("AT7").Select

Selection.AutoFill Destination:=Range("AT7:AT2800")

Range("AT7:AT2800").Select

Range("AU7").Select

Selection.AutoFill Destination:=Range("AU7:AU2800")

Range("AU7:AU2800").Select

Range("AV7").Select

Selection.AutoFill Destination:=Range("AV7:AV2800")

Range("AV7:AV2800").Select

Range("AW7").Select

Selection.AutoFill Destination:=Range("AW7:AW2800")

Range("AW7:AW2800").Select

Range("AX7").Select

Selection.AutoFill Destination:=Range("AX7:AX2800")

Range("AX7:AX2800").Select

Range("AY7").Select

Selection.AutoFill Destination:=Range("AY7:AY2800")

Range("AY7:AY2800").Select

Range("AZ7").Select

Selection.AutoFill Destination:=Range("AZ7:AZ2800")

Range("AZ7:AZ2800").Select

Range("BA7").Select

Selection.AutoFill Destination:=Range("BA7:BA2800")

Range("BA7:BA2800").Select

Range("BB7").Select

Selection.AutoFill Destination:=Range("BB7:BB2800")

Range("BB7:BB2800").Select

Range("BC7").Select

Selection.AutoFill Destination:=Range("BC7:BC2800")

Range("BC7:BC2800").Select

Range("BD7").Select

Selection.AutoFill Destination:=Range("BD7:BD2800")
Range("BD7:BD2800").Select
Range("BE7").Select

Selection.AutoFill Destination:=Range("BE7:BE2800")
Range("BE7:BE2800").Select
Range("BF7").Select

Selection.AutoFill Destination:=Range("BF7:BF2800")
Range("BF7:BF2800").Select
Range("BG7").Select

Selection.AutoFill Destination:=Range("BG7:BG2800")
Range("BG7:BG2800").Select
Range("BH7").Select

Selection.AutoFill Destination:=Range("BH7:BH2800")
Range("BH7:BH2800").Select
Range("BI7").Select

Selection.AutoFill Destination:=Range("BI7:BI2800")
Range("BI7:BI2800").Select
Range("BJ7").Select

Selection.AutoFill Destination:=Range("BJ7:BJ2800")
Range("BJ7:BJ2800").Select
Range("BK7").Select

Selection.AutoFill Destination:=Range("BK7:BK2800")
Range("BK7:BK2800").Select
Range("BL7").Select

Selection.AutoFill Destination:=Range("BL7:BL2800")
Range("BL7:BL2800").Select
Range("BM7").Select

Selection.AutoFill Destination:=Range("BM7:BM2800")
Range("BM7:BM2800").Select
Range("BN7").Select

Selection.AutoFill Destination:=Range("BN7:BN2800")
Range("BN7:BN2800").Select
Range("BO7").Select

Selection.AutoFill Destination:=Range("BO7:BO2800")
Range("BO7:BO2800").Select
Range("BP7").Select

Selection.AutoFill Destination:=Range("BP7:BP2800")
Range("BP7:BP2800").Select
Range("M6").Select

Range("AG2900").Select

Selection.AutoFill Destination:=Range("G2900:AG4304")

Range("AG2900:AG4304").Select

Range("AH2900").Select

Selection.AutoFill Destination:=Range("AH2900:AH4304")

Range("AH2900:AH4304").Select

Range("AI2900").Select

Selection.AutoFill Destination:=Range("AI2900:AI4304")

Range("AI2900:AI4304").Select

Range("AJ2900").Select

Selection.AutoFill Destination:=Range("AJ2900:AJ4304")

Range("AJ2900:AJ4304").Select

Range("AK2900").Select

Selection.AutoFill Destination:=Range("AK2900:AK4304")

Range("AK2900:AK4304").Select

Range("AL2900").Select

Selection.AutoFill Destination:=Range("AL2900:AL4304")

Range("AL2900:AL4304").Select

Range("AM2900").Select

Selection.AutoFill Destination:=Range("AM2900:AM4304")

Range("AM2900:AM4304").Select

Range("AN2900").Select

Selection.AutoFill Destination:=Range("AN2900:AN4304")

Range("AN2900:AN4304").Select

Range("AO2900").Select

Selection.AutoFill Destination:=Range("AO2900:AO4304")

Range("AO2900:AO4304").Select

Range("AP2900").Select

Selection.AutoFill Destination:=Range("AP2900:AP4304")

Range("AP2900:AP4304").Select

Range("AQ2900").Select

Selection.AutoFill Destination:=Range("AQ2900:AQ4304")

Range("AQ2900:AQ4304").Select

Range("AR2900").Select

Selection.AutoFill Destination:=Range("AR2900:AR4304")

Range("AR2900:AR4304").Select

Range("AS2900").Select

Selection.AutoFill Destination:=Range("AS2900:AS4304")


```
Range("AS2900:AS4304").Select  
Range("AT2900").Select
```

```
Selection.AutoFill Destination:=Range("AT2900:AT4304")  
Range("AT2900:AT4304").Select  
Range("AU2900").Select
```

```
Selection.AutoFill Destination:=Range("AU2900:AU4304")  
Range("AU2900:AU4304").Select  
Range("AV2900").Select
```

```
Selection.AutoFill Destination:=Range("AV2900:AV4304")  
Range("AV2900:AV4304").Select  
Range("AW2900").Select
```

```
Selection.AutoFill Destination:=Range("AW2900:AW4304")  
Range("AW2900:AW4304").Select  
Range("AX2900").Select
```

```
Selection.AutoFill Destination:=Range("AX2900:AX4304")  
Range("AX2900:AX4304").Select  
Range("Y2").Select
```

```
End Sub
```

```
Sub vonpiter7()
```

```
' vonpiter7 Macro
```

```
' Macro gravada em 01/06/2009 por jpietron
```

```
" Atalho do teclado: Ctrl+m
```

```
,
```

```
Sheets("31").Select
```

```
Range("X7").Select
```

```
Selection.AutoFill Destination:=Range("X7:X2800")  
Range("X7:X2800").Select  
Range("Y7").Select
```

```
Selection.AutoFill Destination:=Range("Y7:Y2800")  
Range("Y7:Y2800").Select  
Range("Z7").Select
```

```
Selection.AutoFill Destination:=Range("Z7:Z2800")  
Range("Z7:Z2800").Select  
Range("AA7").Select
```

```
Selection.AutoFill Destination:=Range("AA7:AA2800")  
Range("AA7:AA2800").Select  
Range("AB7").Select
```

Selection.AutoFill Destination:=Range("AB7:AB2800")
Range("AB7:AB2800").Select
Range("AC7").Select

Selection.AutoFill Destination:=Range("AC7:AC2800")
Range("AC7:AC2800").Select
Range("AD7").Select

Selection.AutoFill Destination:=Range("AD7:AD2800")
Range("AD7:AD2800").Select
Range("AE7").Select

Selection.AutoFill Destination:=Range("AE7:AE2800")
Range("AE7:AE2800").Select
Range("AF7").Select

Selection.AutoFill Destination:=Range("AF7:AF2800")
Range("AF7:AF2800").Select
Range("AG7").Select

Selection.AutoFill Destination:=Range("AG7:AG2800")
Range("AG7:AG2800").Select
Range("AH7").Select

Selection.AutoFill Destination:=Range("AH7:AH2800")
Range("AH7:AH2800").Select
Range("AI7").Select

Selection.AutoFill Destination:=Range("AI7:AI2800")
Range("AI7:AI2800").Select
Range("AJ7").Select

Selection.AutoFill Destination:=Range("AJ7:AJ2800")
Range("AJ7:AJ2800").Select
Range("AK7").Select

Selection.AutoFill Destination:=Range("AK7:AK2800")
Range("AK7:AK2800").Select
Range("AL7").Select

Selection.AutoFill Destination:=Range("AL7:AL2800")
Range("AL7:AL2800").Select
Range("AM7").Select

Selection.AutoFill Destination:=Range("AM7:AM2800")
Range("AM7:AM2800").Select
Range("AN7").Select

Selection.AutoFill Destination:=Range("AN7:AN2800")
Range("AN7:AN2800").Select
Range("AO7").Select

Selection.AutoFill Destination:=Range("AO7:AO2800")

Range("A07:A02800").Select

Range("AP7").Select

Selection.AutoFill Destination:=Range("AP7:AP2800")

Range("AP7:AP2800").Select

Range("AQ7").Select

Selection.AutoFill Destination:=Range("AQ7:AQ2800")

Range("AQ7:AQ2800").Select

Range("AR7").Select

Selection.AutoFill Destination:=Range("AR7:AR2800")

Range("AR7:AR2800").Select

Range("AS7").Select

Selection.AutoFill Destination:=Range("AS7:AS2800")

Range("AS7:AS2800").Select

Range("AT7").Select

Selection.AutoFill Destination:=Range("AT7:AT2800")

Range("AT7:AT2800").Select

Range("AU7").Select

Selection.AutoFill Destination:=Range("AU7:AU2800")

Range("AU7:AU2800").Select

Range("AV7").Select

Selection.AutoFill Destination:=Range("AV7:AV2800")

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Range("AW7").Select

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Selection.AutoFill Destination:=Range("AM2900:AM4304")
Range("AM2900:AM4304").Select
Range("AN2900").Select

Selection.AutoFill Destination:=Range("AN2900:AN4304")
Range("AN2900:AN4304").Select
Range("AO2900").Select

Selection.AutoFill Destination:=Range("AO2900:AO4304")
Range("AO2900:AO4304").Select
Range("AP2900").Select

Selection.AutoFill Destination:=Range("AP2900:AP4304")
Range("AP2900:AP4304").Select
Range("AQ2900").Select

Selection.AutoFill Destination:=Range("AQ2900:AQ4304")
Range("AQ2900:AQ4304").Select
Range("AR2900").Select

Selection.AutoFill Destination:=Range("AR2900:AR4304")
Range("AR2900:AR4304").Select
Range("AS2900").Select

Selection.AutoFill Destination:=Range("AS2900:AS4304")
Range("AS2900:AS4304").Select
Range("AT2900").Select

Selection.AutoFill Destination:=Range("AT2900:AT4304")
Range("AT2900:AT4304").Select
Range("AU2900").Select

Selection.AutoFill Destination:=Range("AU2900:AU4304")
Range("AU2900:AU4304").Select
Range("AV2900").Select

Selection.AutoFill Destination:=Range("AV2900:AV4304")
Range("AV2900:AV4304").Select
Range("AW2900").Select

Selection.AutoFill Destination:=Range("AW2900:AW4304")
Range("AW2900:AW4304").Select
Range("AX2900").Select

Selection.AutoFill Destination:=Range("AX2900:AX4304")
Range("AX2900:AX4304").Select
Range("Y2").Select

Sheets("41").Select

Range("X7").Select

Selection.AutoFill Destination:=Range("X7:X2800")

Range("X7:X2800").Select
Range("Y7").Select

Selection.AutoFill Destination:=Range("Y7:Y2800")
Range("Y7:Y2800").Select
Range("Z7").Select

Selection.AutoFill Destination:=Range("Z7:Z2800")
Range("Z7:Z2800").Select
Range("AA7").Select

Selection.AutoFill Destination:=Range("AA7:AA2800")
Range("AA7:AA2800").Select
Range("AB7").Select

Selection.AutoFill Destination:=Range("AB7:AB2800")
Range("AB7:AB2800").Select
Range("AC7").Select

Selection.AutoFill Destination:=Range("AC7:AC2800")
Range("AC7:AC2800").Select
Range("AD7").Select

Selection.AutoFill Destination:=Range("AD7:AD2800")
Range("AD7:AD2800").Select
Range("AE7").Select

Selection.AutoFill Destination:=Range("AE7:AE2800")
Range("AE7:AE2800").Select
Range("AF7").Select

Selection.AutoFill Destination:=Range("AF7:AF2800")
Range("AF7:AF2800").Select
Range("AG7").Select

Selection.AutoFill Destination:=Range("AG7:AG2800")
Range("AG7:AG2800").Select
Range("AH7").Select

Selection.AutoFill Destination:=Range("AH7:AH2800")
Range("AH7:AH2800").Select
Range("AI7").Select

Selection.AutoFill Destination:=Range("AI7:AI2800")
Range("AI7:AI2800").Select
Range("AJ7").Select

Selection.AutoFill Destination:=Range("AJ7:AJ2800")
Range("AJ7:AJ2800").Select
Range("AK7").Select

Selection.AutoFill Destination:=Range("AK7:AK2800")
Range("AK7:AK2800").Select

Range("AL7").Select

Selection.AutoFill Destination:=Range("AL7:AL2800")

Range("AL7:AL2800").Select

Range("AM7").Select

Selection.AutoFill Destination:=Range("AM7:AM2800")

Range("AM7:AM2800").Select

Range("AN7").Select

Selection.AutoFill Destination:=Range("AN7:AN2800")

Range("AN7:AN2800").Select

Range("AO7").Select

Selection.AutoFill Destination:=Range("AO7:AO2800")

Range("AO7:AO2800").Select

Range("AP7").Select

Selection.AutoFill Destination:=Range("AP7:AP2800")

Range("AP7:AP2800").Select

Range("AQ7").Select

Selection.AutoFill Destination:=Range("AQ7:AQ2800")

Range("AQ7:AQ2800").Select

Range("AR7").Select

Selection.AutoFill Destination:=Range("AR7:AR2800")

Range("AR7:AR2800").Select

Range("AS7").Select

Selection.AutoFill Destination:=Range("AS7:AS2800")

Range("AS7:AS2800").Select

Range("AT7").Select

Selection.AutoFill Destination:=Range("AT7:AT2800")

Range("AT7:AT2800").Select

Range("AU7").Select

Selection.AutoFill Destination:=Range("AU7:AU2800")

Range("AU7:AU2800").Select

Range("AV7").Select

Selection.AutoFill Destination:=Range("AV7:AV2800")

Range("AV7:AV2800").Select

Range("AW7").Select

Selection.AutoFill Destination:=Range("AW7:AW2800")

Range("AW7:AW2800").Select

Range("AX7").Select

Selection.AutoFill Destination:=Range("AX7:AX2800")

Range("AX7:AX2800").Select

Range("AY7").Select

Selection.AutoFill Destination:=Range("AY7:AY2800")

Range("AY7:AY2800").Select

Range("AZ7").Select

Selection.AutoFill Destination:=Range("AZ7:AZ2800")

Range("AZ7:AZ2800").Select

Range("BA7").Select

Selection.AutoFill Destination:=Range("BA7:BA2800")

Range("BA7:BA2800").Select

Range("BB7").Select

Selection.AutoFill Destination:=Range("BB7:BB2800")

Range("BB7:BB2800").Select

Range("BC7").Select

Selection.AutoFill Destination:=Range("BC7:BC2800")

Range("BC7:BC2800").Select

Range("BD7").Select

Selection.AutoFill Destination:=Range("BD7:BD2800")

Range("BD7:BD2800").Select

Range("BE7").Select

Selection.AutoFill Destination:=Range("BE7:BE2800")

Range("BE7:BE2800").Select

Range("BF7").Select

Selection.AutoFill Destination:=Range("BF7:BF2800")

Range("BF7:BF2800").Select

Range("BG7").Select

Selection.AutoFill Destination:=Range("BG7:BG2800")

Range("BG7:BG2800").Select

Range("BH7").Select

Selection.AutoFill Destination:=Range("BH7:BH2800")

Range("BH7:BH2800").Select

Range("BI7").Select

Selection.AutoFill Destination:=Range("BI7:BI2800")

Range("BI7:BI2800").Select

Range("BJ7").Select

Selection.AutoFill Destination:=Range("BJ7:BJ2800")

Range("BJ7:BJ2800").Select

Range("BK7").Select

Selection.AutoFill Destination:=Range("BK7:BK2800")

Range("BK7:BK2800").Select

Range("BL7").Select

Selection.AutoFill Destination:=Range("BL7:BL2800")
Range("BL7:BL2800").Select
Range("BM7").Select

Selection.AutoFill Destination:=Range("BM7:BM2800")
Range("BM7:BM2800").Select
Range("BN7").Select

Selection.AutoFill Destination:=Range("BN7:BN2800")
Range("BN7:BN2800").Select
Range("BO7").Select

Selection.AutoFill Destination:=Range("BO7:BO2800")
Range("BO7:BO2800").Select
Range("BP7").Select

Selection.AutoFill Destination:=Range("BP7:BP2800")
Range("BP7:BP2800").Select
Range("M6").Select

Range("AG2900").Select

Selection.AutoFill Destination:=Range("AG2900:AG4304")
Range("AG2900:AG4304").Select
Range("AH2900").Select

Selection.AutoFill Destination:=Range("AH2900:AH4304")
Range("AH2900:AH4304").Select
Range("AI2900").Select

Selection.AutoFill Destination:=Range("AI2900:AI4304")
Range("AI2900:AI4304").Select
Range("AJ2900").Select

Selection.AutoFill Destination:=Range("AJ2900:AJ4304")
Range("AJ2900:AJ4304").Select
Range("AK2900").Select

Selection.AutoFill Destination:=Range("AK2900:AK4304")
Range("AK2900:AK4304").Select
Range("AL2900").Select

Selection.AutoFill Destination:=Range("AL2900:AL4304")
Range("AL2900:AL4304").Select
Range("AM2900").Select

Selection.AutoFill Destination:=Range("AM2900:AM4304")
Range("AM2900:AM4304").Select
Range("AN2900").Select

Selection.AutoFill Destination:=Range("AN2900:AN4304")

Range("AN2900:AN4304").Select
Range("AO2900").Select

Selection.AutoFill Destination:=Range("AO2900:AO4304")
Range("AO2900:AO4304").Select
Range("AP2900").Select

Selection.AutoFill Destination:=Range("AP2900:AP4304")
Range("AP2900:AP4304").Select
Range("AQ2900").Select

Selection.AutoFill Destination:=Range("AQ2900:AQ4304")
Range("AQ2900:AQ4304").Select
Range("AR2900").Select

Selection.AutoFill Destination:=Range("AR2900:AR4304")
Range("AR2900:AR4304").Select
Range("AS2900").Select

Selection.AutoFill Destination:=Range("AS2900:AS4304")
Range("AS2900:AS4304").Select
Range("AT2900").Select

Selection.AutoFill Destination:=Range("AT2900:AT4304")
Range("AT2900:AT4304").Select
Range("AU2900").Select

Selection.AutoFill Destination:=Range("AU2900:AU4304")
Range("AU2900:AU4304").Select
Range("AV2900").Select

Selection.AutoFill Destination:=Range("AV2900:AV4304")
Range("AV2900:AV4304").Select
Range("AW2900").Select

Selection.AutoFill Destination:=Range("AW2900:AW4304")
Range("AW2900:AW4304").Select
Range("AX2900").Select

Selection.AutoFill Destination:=Range("AX2900:AX4304")
Range("AX2900:AX4304").Select
Range("Y2").Select

Sheets("42").Select

Range("X7").Select

Selection.AutoFill Destination:=Range("X7:X2800")
Range("X7:X2800").Select
Range("Y7").Select

Selection.AutoFill Destination:=Range("Y7:Y2800")

Range("Y7:Y2800").Select

Range("Z7").Select

Selection.AutoFill Destination:=Range("Z7:Z2800")

Range("Z7:Z2800").Select

Range("AA7").Select

Selection.AutoFill Destination:=Range("AA7:AA2800")

Range("AA7:AA2800").Select

Range("AB7").Select

Selection.AutoFill Destination:=Range("AB7:AB2800")

Range("AB7:AB2800").Select

Range("AC7").Select

Selection.AutoFill Destination:=Range("AC7:AC2800")

Range("AC7:AC2800").Select

Range("AD7").Select

Selection.AutoFill Destination:=Range("AD7:AD2800")

Range("AD7:AD2800").Select

Range("AE7").Select

Selection.AutoFill Destination:=Range("AE7:AE2800")

Range("AE7:AE2800").Select

Range("AF7").Select

Selection.AutoFill Destination:=Range("AF7:AF2800")

Range("AF7:AF2800").Select

Range("AG7").Select

Selection.AutoFill Destination:=Range("AG7:AG2800")

Range("AG7:AG2800").Select

Range("AH7").Select

Selection.AutoFill Destination:=Range("AH7:AH2800")

Range("AH7:AH2800").Select

Range("AI7").Select

Selection.AutoFill Destination:=Range("AI7:AI2800")

Range("AI7:AI2800").Select

Range("AJ7").Select

Selection.AutoFill Destination:=Range("AJ7:AJ2800")

Range("AJ7:AJ2800").Select

Range("AK7").Select

Selection.AutoFill Destination:=Range("AK7:AK2800")

Range("AK7:AK2800").Select

Range("AL7").Select

Selection.AutoFill Destination:=Range("AL7:AL2800")
Range("AL7:AL2800").Select
Range("AM7").Select

Selection.AutoFill Destination:=Range("AM7:AM2800")
Range("AM7:AM2800").Select
Range("AN7").Select

Selection.AutoFill Destination:=Range("AN7:AN2800")
Range("AN7:AN2800").Select
Range("AO7").Select

Selection.AutoFill Destination:=Range("AO7:AO2800")
Range("AO7:AO2800").Select
Range("AP7").Select

Selection.AutoFill Destination:=Range("AP7:AP2800")
Range("AP7:AP2800").Select
Range("AQ7").Select

Selection.AutoFill Destination:=Range("AQ7:AQ2800")
Range("AQ7:AQ2800").Select
Range("AR7").Select

Selection.AutoFill Destination:=Range("AR7:AR2800")
Range("AR7:AR2800").Select
Range("AS7").Select

Selection.AutoFill Destination:=Range("AS7:AS2800")

Range("AS7:AS2800").Select

Range("AT7").Select

Selection.AutoFill Destination:=Range("AT7:AT2800")

Range("AT7:AT2800").Select

Range("AU7").Select

Selection.AutoFill Destination:=Range("AU7:AU2800")

Range("AU7:AU2800").Select

Range("AV7").Select

Selection.AutoFill Destination:=Range("AV7:AV2800")

Range("AV7:AV2800").Select

Range("AW7").Select

Selection.AutoFill Destination:=Range("AW7:AW2800")

Range("AW7:AW2800").Select

Range("AX7").Select

Selection.AutoFill Destination:=Range("AX7:AX2800")

Range("AX7:AX2800").Select

Range("AY7").Select

Selection.AutoFill Destination:=Range("AY7:AY2800")

Range("AY7:AY2800").Select

Range("AZ7").Select

Selection.AutoFill Destination:=Range("AZ7:AZ2800")

Range("AZ7:AZ2800").Select

Range("BA7").Select

Selection.AutoFill Destination:=Range("BA7:BA2800")

Range("BA7:BA2800").Select

Range("BB7").Select

Selection.AutoFill Destination:=Range("BB7:BB2800")

Range("BB7:BB2800").Select

Range("BC7").Select

Selection.AutoFill Destination:=Range("BC7:BC2800")

Range("BC7:BC2800").Select

Range("BD7").Select

Selection.AutoFill Destination:=Range("BD7:BD2800")

Range("BD7:BD2800").Select

Range("BE7").Select

Selection.AutoFill Destination:=Range("BE7:BE2800")

Range("BE7:BE2800").Select

Range("BF7").Select

Selection.AutoFill Destination:=Range("BF7:BF2800")
Range("BF7:BF2800").Select
Range("BG7").Select

Selection.AutoFill Destination:=Range("BG7:BG2800")
Range("BG7:BG2800").Select
Range("BH7").Select

Selection.AutoFill Destination:=Range("BH7:BH2800")
Range("BH7:BH2800").Select
Range("BI7").Select

Selection.AutoFill Destination:=Range("BI7:BI2800")
Range("BI7:BI2800").Select
Range("BJ7").Select

Selection.AutoFill Destination:=Range("BJ7:BJ2800")
Range("BJ7:BJ2800").Select
Range("BK7").Select

Selection.AutoFill Destination:=Range("BK7:BK2800")
Range("BK7:BK2800").Select
Range("BL7").Select

Selection.AutoFill Destination:=Range("BL7:BL2800")
Range("BL7:BL2800").Select
Range("BM7").Select

Selection.AutoFill Destination:=Range("BM7:BM2800")
Range("BM7:BM2800").Select

Range("BN7").Select

Selection.AutoFill Destination:=Range("BN7:BN2800")
Range("BN7:BN2800").Select
Range("BO7").Select

Selection.AutoFill Destination:=Range("BO7:BO2800")
Range("BO7:BO2800").Select
Range("BP7").Select

Selection.AutoFill Destination:=Range("BP7:BP2800")
Range("BP7:BP2800").Select
Range("M6").Select
Range("AG2900").Select

Selection.AutoFill Destination:=Range("AG2900:AG4304")
Range("AG2900:AG4304").Select
Range("AH2900").Select

Selection.AutoFill Destination:=Range("AH2900:AH4304")
Range("AH2900:AH4304").Select
Range("AI2900").Select

Selection.AutoFill Destination:=Range("AI2900:AI4304")
Range("AI2900:AI4304").Select
Range("AJ2900").Select

Selection.AutoFill Destination:=Range("AJ2900:AJ4304")
Range("AJ2900:AJ4304").Select
Range("AK2900").Select

Selection.AutoFill Destination:=Range("AK2900:AK4304")
Range("AK2900:AK4304").Select
Range("AL2900").Select

Selection.AutoFill Destination:=Range("AL2900:AL4304")
Range("AL2900:AL4304").Select

Range("AM2900").Select

Selection.AutoFill Destination:=Range("AM2900:AM4304")
Range("AM2900:AM4304").Select
Range("AN2900").Select

Selection.AutoFill Destination:=Range("AN2900:AN4304")
Range("AN2900:AN4304").Select
Range("AO2900").Select

Selection.AutoFill Destination:=Range("AO2900:AO4304")
Range("AO2900:AO4304").Select
Range("AP2900").Select

Selection.AutoFill Destination:=Range("AP2900:AP4304")
Range("AP2900:AP4304").Select
Range("AQ2900").Select

Selection.AutoFill Destination:=Range("AQ2900:AQ4304")
Range("AQ2900:AQ4304").Select
Range("AR2900").Select

Selection.AutoFill Destination:=Range("AR2900:AR4304")
Range("AR2900:AR4304").Select
Range("AS2900").Select

Selection.AutoFill Destination:=Range("AS2900:AS4304")
Range("AS2900:AS4304").Select
Range("AT2900").Select

Selection.AutoFill Destination:=Range("AT2900:AT4304")
Range("AT2900:AT4304").Select
Range("AU2900").Select

Selection.AutoFill Destination:=Range("AU2900:AU4304")
Range("AU2900:AU4304").Select
Range("AV2900").Select

```
Selection.AutoFill Destination:=Range("AV2900:AV4304")
Range("AV2900:AV4304").Select

Range("AW2900").Select

Selection.AutoFill Destination:=Range("AW2900:AW4304")
Range("AW2900:AW4304").Select
Range("AX2900").Select

Selection.AutoFill Destination:=Range("AX2900:AX4304")
Range("AX2900:AX4304").Select
Range("Y2").Select
End Sub
```

```
Sub vonpiter8()
'
' vonpiter8 Macro
' Macro gravada em 16/06/2009 por jpietron
'
' Atalho do teclado: Ctrl+Shift+H
```

```
Sheets("43").Select

Range("X7").Select

Selection.AutoFill Destination:=Range("X7:X2800")
Range("X7:X2800").Select
Range("Y7").Select
Selection.AutoFill Destination:=Range("Y7:Y2800")
Range("Y7:Y2800").Select
Range("Z7").Select
Selection.AutoFill Destination:=Range("Z7:Z2800")
Range("Z7:Z2800").Select
Range("AA7").Select

Selection.AutoFill Destination:=Range("AA7:AA2800")
Range("AA7:AA2800").Select
Range("AB7").Select

Selection.AutoFill Destination:=Range("AB7:AB2800")
Range("AB7:AB2800").Select
Range("AC7").Select

Selection.AutoFill Destination:=Range("AC7:AC2800")
Range("AC7:AC2800").Select
Range("AD7").Select

Selection.AutoFill Destination:=Range("AD7:AD2800")
Range("AD7:AD2800").Select
```


Range("AE7").Select

Selection.AutoFill Destination:=Range("AE7:AE2800")

Range("AE7:AE2800").Select

Range("AF7").Select

Selection.AutoFill Destination:=Range("AF7:AF2800")

Range("AF7:AF2800").Select

Range("AG7").Select

Selection.AutoFill Destination:=Range("AG7:AG2800")

Range("AG7:AG2800").Select

Range("AH7").Select

Selection.AutoFill Destination:=Range("AH7:AH2800")

Range("AH7:AH2800").Select

Range("AI7").Select

Selection.AutoFill Destination:=Range("AI7:AI2800")

Range("AI7:AI2800").Select

Range("AJ7").Select

Selection.AutoFill Destination:=Range("AJ7:AJ2800")

Range("AJ7:AJ2800").Select

Range("AK7").Select

Selection.AutoFill Destination:=Range("AK7:AK2800")

Range("AK7:AK2800").Select

Range("AL7").Select

Selection.AutoFill Destination:=Range("AL7:AL2800")

Range("AL7:AL2800").Select

Range("AM7").Select

Selection.AutoFill Destination:=Range("AM7:AM2800")

Range("AM7:AM2800").Select

Range("AN7").Select

Selection.AutoFill Destination:=Range("AN7:AN2800")

Range("AN7:AN2800").Select

Range("AO7").Select

Selection.AutoFill Destination:=Range("AO7:AO2800")

Range("AO7:AO2800").Select

Range("AP7").Select

Selection.AutoFill Destination:=Range("AP7:AP2800")

Range("AP7:AP2800").Select

Range("AQ7").Select

Selection.AutoFill Destination:=Range("AQ7:AQ2800")

Range("AQ7:AQ2800").Select

Range("AR7").Select

Selection.AutoFill Destination:=Range("AR7:AR2800")
Range("AR7:AR2800").Select
Range("AS7").Select

Selection.AutoFill Destination:=Range("AS7:AS2800")
Range("AS7:AS2800").Select
Range("AT7").Select

Selection.AutoFill Destination:=Range("AT7:AT2800")
Range("AT7:AT2800").Select
Range("AU7").Select

Selection.AutoFill Destination:=Range("AU7:AU2800")
Range("AU7:AU2800").Select
Range("AV7").Select

Selection.AutoFill Destination:=Range("AV7:AV2800")
Range("AV7:AV2800").Select
Range("AW7").Select

Selection.AutoFill Destination:=Range("AW7:AW2800")
Range("AW7:AW2800").Select
Range("AX7").Select

Selection.AutoFill Destination:=Range("AX7:AX2800")
Range("AX7:AX2800").Select
Range("AY7").Select

Selection.AutoFill Destination:=Range("AY7:AY2800")
Range("AY7:AY2800").Select
Range("AZ7").Select

Selection.AutoFill Destination:=Range("AZ7:AZ2800")
Range("AZ7:AZ2800").Select
Range("BA7").Select

Selection.AutoFill Destination:=Range("BA7:BA2800")
Range("BA7:BA2800").Select
Range("BB7").Select

Selection.AutoFill Destination:=Range("BB7:BB2800")
Range("BB7:BB2800").Select
Range("BC7").Select

Selection.AutoFill Destination:=Range("BC7:BC2800")
Range("BC7:BC2800").Select
Range("BD7").Select

Selection.AutoFill Destination:=Range("BD7:BD2800")
Range("BD7:BD2800").Select
Range("BE7").Select

Selection.AutoFill Destination:=Range("BE7:BE2800")
Range("BE7:BE2800").Select

Range("BF7").Select

Selection.AutoFill Destination:=Range("BF7:BF2800")

Range("BF7:BF2800").Select

Range("BG7").Select

Selection.AutoFill Destination:=Range("BG7:BG2800")

Range("BG7:BG2800").Select

Range("BH7").Select

Selection.AutoFill Destination:=Range("BH7:BH2800")

Range("BH7:BH2800").Select

Range("BI7").Select

Selection.AutoFill Destination:=Range("BI7:BI2800")

Range("BI7:BI2800").Select

Range("BJ7").Select

Selection.AutoFill Destination:=Range("BJ7:BJ2800")

Range("BJ7:BJ2800").Select

Range("BK7").Select

Selection.AutoFill Destination:=Range("BK7:BK2800")

Range("BK7:BK2800").Select

Range("BL7").Select

Selection.AutoFill Destination:=Range("BL7:BL2800")

Range("BL7:BL2800").Select

Range("BM7").Select

Selection.AutoFill Destination:=Range("BM7:BM2800")

Range("BM7:BM2800").Select

Range("BN7").Select

Selection.AutoFill Destination:=Range("BN7:BN2800")

Range("BN7:BN2800").Select

Range("BO7").Select

Selection.AutoFill Destination:=Range("BO7:BO2800")

Range("BO7:BO2800").Select

Range("BP7").Select

Selection.AutoFill Destination:=Range("BP7:BP2800")

Range("BP7:BP2800").Select

Range("M6").Select

Range("AG2900").Select

Selection.AutoFill Destination:=Range("AG2900:AG4304")

Range("AG2900:AG4304").Select

Range("AH2900").Select

Selection.AutoFill Destination:=Range("AH2900:AH4304")

Range("AH2900:AH4304").Select

Range("AI2900").Select

Selection.AutoFill Destination:=Range("AI2900:AI4304")

Range("AI2900:AI4304").Select

Range("AJ2900").Select

Selection.AutoFill Destination:=Range("AJ2900:AJ4304")

Range("AJ2900:AJ4304").Select

Range("AK2900").Select

Selection.AutoFill Destination:=Range("AK2900:AK4304")

Range("AK2900:AK4304").Select

Range("AL2900").Select

Selection.AutoFill Destination:=Range("AL2900:AL4304")

Range("AL2900:AL4304").Select

Range("AM2900").Select

Selection.AutoFill Destination:=Range("AM2900:AM4304")

Range("AM2900:AM4304").Select

Range("AN2900").Select

Selection.AutoFill Destination:=Range("AN2900:AN4304")

Range("AN2900:AN4304").Select

Range("AO2900").Select

Selection.AutoFill Destination:=Range("AO2900:AO4304")

Range("AO2900:AO4304").Select

Range("AP2900").Select

Selection.AutoFill Destination:=Range("AP2900:AP4304")

Range("AP2900:AP4304").Select

Range("AQ2900").Select

Selection.AutoFill Destination:=Range("AQ2900:AQ4304")

Range("AQ2900:AQ4304").Select

Range("AR2900").Select

Selection.AutoFill Destination:=Range("AR2900:AR4304")

Range("AR2900:AR4304").Select

Range("AS2900").Select

Selection.AutoFill Destination:=Range("AS2900:AS4304")

Range("AS2900:AS4304").Select

Range("AT2900").Select

Selection.AutoFill Destination:=Range("AT2900:AT4304")

Range("AT2900:AT4304").Select

Range("AU2900").Select

Selection.AutoFill Destination:=Range("AU2900:AU4304")

Range("AU2900:AU4304").Select

Range("AV2900").Select

Selection.AutoFill Destination:=Range("AV2900:AV4304")

Range("AV2900:AV4304").Select

Range("AW2900").Select

Selection.AutoFill Destination:=Range("AW2900:AW4304")

Range("AW2900:AW4304").Select

Range("AX2900").Select

Selection.AutoFill Destination:=Range("AX2900:AX4304")

Range("AX2900:AX4304").Select

Range("Y2").Select

Sheets("44").Select

Range("X7").Select

Selection.AutoFill Destination:=Range("X7:X2800")
Range("X7:X2800").Select
Range("Y7").Select

Selection.AutoFill Destination:=Range("Y7:Y2800")
Range("Y7:Y2800").Select
Range("Z7").Select

Selection.AutoFill Destination:=Range("Z7:Z2800")
Range("Z7:Z2800").Select
Range("AA7").Select

Selection.AutoFill Destination:=Range("AA7:AA2800")
Range("AA7:AA2800").Select
Range("AB7").Select

Selection.AutoFill Destination:=Range("AB7:AB2800")
Range("AB7:AB2800").Select
Range("AC7").Select

Selection.AutoFill Destination:=Range("AC7:AC2800")
Range("AC7:AC2800").Select
Range("AD7").Select

Selection.AutoFill Destination:=Range("AD7:AD2800")
Range("AD7:AD2800").Select
Range("AE7").Select

Selection.AutoFill Destination:=Range("AE7:AE2800")
Range("AE7:AE2800").Select
Range("AF7").Select

Selection.AutoFill Destination:=Range("AF7:AF2800")
Range("AF7:AF2800").Select
Range("AG7").Select

Selection.AutoFill Destination:=Range("AG7:AG2800")
Range("AG7:AG2800").Select
Range("AH7").Select

Selection.AutoFill Destination:=Range("AH7:AH2800")
Range("AH7:AH2800").Select
Range("AI7").Select

Selection.AutoFill Destination:=Range("AI7:AI2800")
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Range("BL7").Select

Selection.AutoFill Destination:=Range("BL7:BL2800")
Range("BL7:BL2800").Select
Range("BM7").Select
Selection.AutoFill Destination:=Range("BM7:BM2800")
Range("BM7:BM2800").Select
Range("BN7").Select

Selection.AutoFill Destination:=Range("BN7:BN2800")
Range("BN7:BN2800").Select
Range("BO7").Select

Selection.AutoFill Destination:=Range("BO7:BO2800")
Range("BO7:BO2800").Select
Range("BP7").Select

Selection.AutoFill Destination:=Range("BP7:BP2800")
Range("BP7:BP2800").Select
Range("M6").Select

Range("AG2900").Select

Selection.AutoFill Destination:=Range("AG2900:AG4304")
Range("AG2900:AG4304").Select
Range("AH2900").Select

Selection.AutoFill Destination:=Range("AH2900:AH4304")
Range("AH2900:AH4304").Select
Range("AI2900").Select

Selection.AutoFill Destination:=Range("AI2900:AI4304")
Range("AI2900:AI4304").Select
Range("AJ2900").Select

Selection.AutoFill Destination:=Range("AJ2900:AJ4304")
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Range("AK2900").Select

Selection.AutoFill Destination:=Range("AK2900:AK4304")
Range("AK2900:AK4304").Select
Range("AL2900").Select

Selection.AutoFill Destination:=Range("AL2900:AL4304")
Range("AL2900:AL4304").Select
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Selection.AutoFill Destination:=Range("AM2900:AM4304")
Range("AM2900:AM4304").Select
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Selection.AutoFill Destination:=Range("AN2900:AN4304")
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Selection.AutoFill Destination:=Range("AO2900:AO4304")
Range("AO2900:AO4304").Select
Range("AP2900").Select

Selection.AutoFill Destination:=Range("AP2900:AP4304")
Range("AP2900:AP4304").Select
Range("AQ2900").Select

Selection.AutoFill Destination:=Range("AQ2900:AQ4304")
Range("AQ2900:AQ4304").Select
Range("AR2900").Select

Selection.AutoFill Destination:=Range("AR2900:AR4304")
Range("AR2900:AR4304").Select
Range("AS2900").Select

Selection.AutoFill Destination:=Range("AS2900:AS4304")
Range("AS2900:AS4304").Select
Range("AT2900").Select

Selection.AutoFill Destination:=Range("AT2900:AT4304")
Range("AT2900:AT4304").Select

Range("AU2900").Select

Selection.AutoFill Destination:=Range("AU2900:AU4304")

Range("AU2900:AU4304").Select

Range("AV2900").Select

Selection.AutoFill Destination:=Range("AV2900:AV4304")

Range("AV2900:AV4304").Select

Range("AW2900").Select

Selection.AutoFill Destination:=Range("AW2900:AW4304")

Range("AW2900:AW4304").Select

Range("AX2900").Select

Selection.AutoFill Destination:=Range("AX2900:AX4304")

Range("AX2900:AX4304").Select

Range("Y2").Select

Sheets("14a").Select

Range("X7").Select

Selection.AutoFill Destination:=Range("X7:X2800")

Range("X7:X2800").Select

Range("Y7").Select

Selection.AutoFill Destination:=Range("Y7:Y2800")

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Range("Z7").Select

Selection.AutoFill Destination:=Range("Z7:Z2800")

Range("Z7:Z2800").Select

Range("AA7").Select

Selection.AutoFill Destination:=Range("AA7:AA2800")

Range("AA7:AA2800").Select

Range("AB7").Select

Selection.AutoFill Destination:=Range("AB7:AB2800")

Range("AB7:AB2800").Select

Range("AC7").Select

Selection.AutoFill Destination:=Range("AC7:AC2800")

Range("AC7:AC2800").Select

Range("AD7").Select

Selection.AutoFill Destination:=Range("AD7:AD2800")

Range("AD7:AD2800").Select

Range("AE7").Select

Selection.AutoFill Destination:=Range("AE7:AE2800")

Range("AE7:AE2800").Select

Range("AF7").Select

Selection.AutoFill Destination:=Range("AF7:AF2800")
Range("AF7:AF2800").Select
Range("AG7").Select

Selection.AutoFill Destination:=Range("AG7:AG2800")
Range("AG7:AG2800").Select
Range("AH7").Select

Selection.AutoFill Destination:=Range("AH7:AH2800")
Range("AH7:AH2800").Select
Range("AI7").Select

Selection.AutoFill Destination:=Range("AI7:AI2800")
Range("AI7:AI2800").Select
Range("AJ7").Select

Selection.AutoFill Destination:=Range("AJ7:AJ2800")
Range("AJ7:AJ2800").Select
Range("AK7").Select

Selection.AutoFill Destination:=Range("AK7:AK2800")
Range("AK7:AK2800").Select
Range("AL7").Select

Selection.AutoFill Destination:=Range("AL7:AL2800")
Range("AL7:AL2800").Select
Range("AM7").Select

Selection.AutoFill Destination:=Range("AM7:AM2800")
Range("AM7:AM2800").Select
Range("AN7").Select

Selection.AutoFill Destination:=Range("AN7:AN2800")
Range("AN7:AN2800").Select
Range("AO7").Select

Selection.AutoFill Destination:=Range("AO7:AO2800")
Range("AO7:AO2800").Select
Range("AP7").Select

Selection.AutoFill Destination:=Range("AP7:AP2800")
Range("AP7:AP2800").Select
Range("AQ7").Select

Selection.AutoFill Destination:=Range("AQ7:AQ2800")
Range("AQ7:AQ2800").Select
Range("AR7").Select

Selection.AutoFill Destination:=Range("AR7:AR2800")
Range("AR7:AR2800").Select
Range("AS7").Select

Selection.AutoFill Destination:=Range("AS7:AS2800")

Range("A57:A52800").Select
Range("AT7").Select

Selection.AutoFill Destination:=Range("AT7:AT2800")
Range("AT7:AT2800").Select
Range("AU7").Select

Selection.AutoFill Destination:=Range("AU7:AU2800")
Range("AU7:AU2800").Select
Range("AV7").Select

Selection.AutoFill Destination:=Range("AV7:AV2800")
Range("AV7:AV2800").Select
Range("AW7").Select

Selection.AutoFill Destination:=Range("AW7:AW2800")
Range("AW7:AW2800").Select
Range("AX7").Select

Selection.AutoFill Destination:=Range("AX7:AX2800")
Range("AX7:AX2800").Select
Range("AY7").Select

Selection.AutoFill Destination:=Range("AY7:AY2800")
Range("AY7:AY2800").Select
Range("AZ7").Select

Selection.AutoFill Destination:=Range("AZ7:AZ2800")
Range("AZ7:AZ2800").Select
Range("BA7").Select

Selection.AutoFill Destination:=Range("BA7:BA2800")
Range("BA7:BA2800").Select
Range("BB7").Select

Selection.AutoFill Destination:=Range("BB7:BB2800")
Range("BB7:BB2800").Select
Range("BC7").Select

Selection.AutoFill Destination:=Range("BC7:BC2800")
Range("BC7:BC2800").Select
Range("BD7").Select

Selection.AutoFill Destination:=Range("BD7:BD2800")
Range("BD7:BD2800").Select
Range("BE7").Select

Selection.AutoFill Destination:=Range("BE7:BE2800")
Range("BE7:BE2800").Select
Range("BF7").Select

Selection.AutoFill Destination:=Range("BF7:BF2800")
Range("BF7:BF2800").Select

Range("BG7").Select

Selection.AutoFill Destination:=Range("BG7:BG2800")

Range("BG7:BG2800").Select

Range("BH7").Select

Selection.AutoFill Destination:=Range("BH7:BH2800")

Range("BH7:BH2800").Select

Range("BI7").Select

Selection.AutoFill Destination:=Range("BI7:BI2800")

Range("BI7:BI2800").Select

Range("BJ7").Select

Selection.AutoFill Destination:=Range("BJ7:BJ2800")

Range("BJ7:BJ2800").Select

Range("BK7").Select

Selection.AutoFill Destination:=Range("BK7:BK2800")

Range("BK7:BK2800").Select

Range("BL7").Select

Selection.AutoFill Destination:=Range("BL7:BL2800")

Range("BL7:BL2800").Select

Range("BM7").Select

Selection.AutoFill Destination:=Range("BM7:BM2800")

Range("BM7:BM2800").Select

Range("BN7").Select

Selection.AutoFill Destination:=Range("BN7:BN2800")

Range("BN7:BN2800").Select

Range("BO7").Select

Selection.AutoFill Destination:=Range("BO7:BO2800")

Range("BO7:BO2800").Select

Range("BP7").Select

Selection.AutoFill Destination:=Range("BP7:BP2800")

Range("BP7:BP2800").Select

Range("M6").Select

Range("AG2900").Select

Selection.AutoFill Destination:=Range("AG2900:AG4304")

Range("AG2900:AG4304").Select

Range("AH2900").Select

Selection.AutoFill Destination:=Range("AH2900:AH4304")

Range("AH2900:AH4304").Select

Range("AI2900").Select

Selection.AutoFill Destination:=Range("AI2900:AI4304")

Range("AI2900:AI4304").Select

Range("AJ2900").Select

Selection.AutoFill Destination:=Range("AJ2900:AJ4304")

Range("AJ2900:AJ4304").Select

Range("AK2900").Select

Selection.AutoFill Destination:=Range("AK2900:AK4304")

Range("AK2900:AK4304").Select

Range("AL2900").Select

Selection.AutoFill Destination:=Range("AL2900:AL4304")

Range("AL2900:AL4304").Select

Range("AM2900").Select

Selection.AutoFill Destination:=Range("AM2900:AM4304")

Range("AM2900:AM4304").Select

Range("AN2900").Select

Selection.AutoFill Destination:=Range("AN2900:AN4304")

Range("AN2900:AN4304").Select

Range("AO2900").Select

Selection.AutoFill Destination:=Range("AO2900:AO4304")

Range("AO2900:AO4304").Select

Range("AP2900").Select

Selection.AutoFill Destination:=Range("AP2900:AP4304")

Range("AP2900:AP4304").Select

Range("AQ2900").Select

Selection.AutoFill Destination:=Range("AQ2900:AQ4304")

Range("AQ2900:AQ4304").Select

Range("AR2900").Select

Selection.AutoFill Destination:=Range("AR2900:AR4304")

Range("AR2900:AR4304").Select

Range("AS2900").Select

Selection.AutoFill Destination:=Range("AS2900:AS4304")

Range("AS2900:AS4304").Select

Range("AT2900").Select

Selection.AutoFill Destination:=Range("AT2900:AT4304")

Range("AT2900:AT4304").Select

Range("AU2900").Select

Selection.AutoFill Destination:=Range("AU2900:AU4304")

Range("AU2900:AU4304").Select

Range("AV2900").Select

Selection.AutoFill Destination:=Range("AV2900:AV4304")

Range("AV2900:AV4304").Select

Range("AW2900").Select

```
Selection.AutoFill Destination:=Range("AW2900:AW4304")
Range("AW2900:AW4304").Select
Range("AX2900").Select
```

```
Selection.AutoFill Destination:=Range("AX2900:AX4304")
Range("AX2900:AX4304").Select
Range("Y2").Select
```

End Sub

```
Sub vonpiter9()
' vonpiter9 Macro
```

```
' Macro gravada em 16/06/2009 por jpietron
```

```
' Atalho do teclado: Ctrl+Shift+D'
Sheets("21a").Select
```

```
Range("X7").Select
```

```
Selection.AutoFill Destination:=Range("X7:X2800")
Range("X7:X2800").Select
Range("Y7").Select
```

```
Selection.AutoFill Destination:=Range("Y7:Y2800")
Range("Y7:Y2800").Select
Range("Z7").Select
```

```
Selection.AutoFill Destination:=Range("Z7:Z2800")
Range("Z7:Z2800").Select
Range("AA7").Select
```

```
Selection.AutoFill Destination:=Range("AA7:AA2800")
Range("AA7:AA2800").Select
Range("AB7").Select
```

```
Selection.AutoFill Destination:=Range("AB7:AB2800")
Range("AB7:AB2800").Select
Range("AC7").Select
```

```
Selection.AutoFill Destination:=Range("AC7:AC2800")
Range("AC7:AC2800").Select
Range("AD7").Select
```

```
Selection.AutoFill Destination:=Range("AD7:AD2800")
Range("AD7:AD2800").Select
```

```
Range("AE7").Select
```

```
Selection.AutoFill Destination:=Range("AE7:AE2800")
Range("AE7:AE2800").Select
Range("AF7").Select
```

Selection.AutoFill Destination:=Range("AF7:AF2800")
Range("AF7:AF2800").Select
Range("AG7").Select

Selection.AutoFill Destination:=Range("AG7:AG2800")
Range("AG7:AG2800").Select
Range("AH7").Select

Selection.AutoFill Destination:=Range("AH7:AH2800")
Range("AH7:AH2800").Select
Range("AI7").Select

Selection.AutoFill Destination:=Range("AI7:AI2800")
Range("AI7:AI2800").Select
Range("AJ7").Select

Selection.AutoFill Destination:=Range("AJ7:AJ2800")
Range("AJ7:AJ2800").Select
Range("AK7").Select

Selection.AutoFill Destination:=Range("AK7:AK2800")
Range("AK7:AK2800").Select
Range("AL7").Select

Selection.AutoFill Destination:=Range("AL7:AL2800")
Range("AL7:AL2800").Select
Range("AM7").Select

Selection.AutoFill Destination:=Range("AM7:AM2800")
Range("AM7:AM2800").Select
Range("AN7").Select

Selection.AutoFill Destination:=Range("AN7:AN2800")
Range("AN7:AN2800").Select

Range("AO7").Select

Selection.AutoFill Destination:=Range("AO7:AO2800")
Range("AO7:AO2800").Select
Range("AP7").Select

Selection.AutoFill Destination:=Range("AP7:AP2800")
Range("AP7:AP2800").Select
Range("AQ7").Select

Selection.AutoFill Destination:=Range("AQ7:AQ2800")
Range("AQ7:AQ2800").Select
Range("AR7").Select

Selection.AutoFill Destination:=Range("AR7:AR2800")
Range("AR7:AR2800").Select
Range("AS7").Select

Selection.AutoFill Destination:=Range("AS7:AS2800")
Range("AS7:AS2800").Select
Range("AT7").Select

Selection.AutoFill Destination:=Range("AT7:AT2800")
Range("AT7:AT2800").Select
Range("AU7").Select

Selection.AutoFill Destination:=Range("AU7:AU2800")
Range("AU7:AU2800").Select
Range("AV7").Select

Selection.AutoFill Destination:=Range("AV7:AV2800")
Range("AV7:AV2800").Select
Range("AW7").Select

Selection.AutoFill Destination:=Range("AW7:AW2800")
Range("AW7:AW2800").Select
Range("AX7").Select

Selection.AutoFill Destination:=Range("AX7:AX2800")
Range("AX7:AX2800").Select

Range("AY7").Select

Selection.AutoFill Destination:=Range("AY7:AY2800")
Range("AY7:AY2800").Select
Range("AZ7").Select

Selection.AutoFill Destination:=Range("AZ7:AZ2800")
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Range("BA7").Select

Selection.AutoFill Destination:=Range("BA7:BA2800")
Range("BA7:BA2800").Select
Range("BB7").Select

Selection.AutoFill Destination:=Range("BB7:BB2800")
Range("BB7:BB2800").Select
Range("BC7").Select

Selection.AutoFill Destination:=Range("BC7:BC2800")
Range("BC7:BC2800").Select
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Selection.AutoFill Destination:=Range("BD7:BD2800")
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Range("BF7").Select

Selection.AutoFill Destination:=Range("BF7:BF2800")
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Range("BG7").Select

Selection.AutoFill Destination:=Range("BG7:BG2800")
Range("BG7:BG2800").Select
Range("BH7").Select

Selection.AutoFill Destination:=Range("BH7:BH2800")
Range("BH7:BH2800").Select

Range("BI7").Select

Selection.AutoFill Destination:=Range("BI7:BI2800")
Range("BI7:BI2800").Select
Range("BJ7").Select

Selection.AutoFill Destination:=Range("BJ7:BJ2800")
Range("BJ7:BJ2800").Select
Range("BK7").Select

Selection.AutoFill Destination:=Range("BK7:BK2800")
Range("BK7:BK2800").Select
Range("BL7").Select

Selection.AutoFill Destination:=Range("BL7:BL2800")
Range("BL7:BL2800").Select
Range("BM7").Select

Selection.AutoFill Destination:=Range("BM7:BM2800")
Range("BM7:BM2800").Select
Range("BN7").Select

Selection.AutoFill Destination:=Range("BN7:BN2800")
Range("BN7:BN2800").Select
Range("BO7").Select

Selection.AutoFill Destination:=Range("BO7:BO2800")
Range("BO7:BO2800").Select
Range("BP7").Select

Selection.AutoFill Destination:=Range("BP7:BP2800")
Range("BP7:BP2800").Select
Range("M6").Select

Range("AG2900").Select

Selection.AutoFill Destination:=Range("AG2900:AG4304")
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Selection.AutoFill Destination:=Range("AH2900:AH4304")

Range("AH2900:AH4304").Select
Range("AI2900").Select

Selection.AutoFill Destination:=Range("AI2900:AI4304")
Range("AI2900:AI4304").Select
Range("AJ2900").Select

Selection.AutoFill Destination:=Range("AJ2900:AJ4304")
Range("AJ2900:AJ4304").Select
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Selection.AutoFill Destination:=Range("AK2900:AK4304")
Range("AK2900:AK4304").Select
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Selection.AutoFill Destination:=Range("AM2900:AM4304")
Range("AM2900:AM4304").Select
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Selection.AutoFill Destination:=Range("AN2900:AN4304")
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Selection.AutoFill Destination:=Range("AO2900:AO4304")
Range("AO2900:AO4304").Select
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Selection.AutoFill Destination:=Range("AP2900:AP4304")
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Selection.AutoFill Destination:=Range("AQ2900:AQ4304")
Range("AQ2900:AQ4304").Select
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Selection.AutoFill Destination:=Range("AS2900:AS4304")
Range("AS2900:AS4304").Select
Range("AT2900").Select

Selection.AutoFill Destination:=Range("AT2900:AT4304")
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Selection.AutoFill Destination:=Range("AU2900:AU4304")
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Range("AV2900").Select

Selection.AutoFill Destination:=Range("AV2900:AV4304")

Range("AV2900:AV4304").Select

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Selection.AutoFill Destination:=Range("AW2900:AW4304")

Range("AW2900:AW4304").Select

Range("AX2900").Select

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Range("AX2900:AX4304").Select

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Sheets("22a").Select

Range("X7").Select

Selection.AutoFill Destination:=Range("X7:X2800")

Range("X7:X2800").Select

Range("Y7").Select

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Range("Y7:Y2800").Select

Range("Z7").Select

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Selection.AutoFill Destination:=Range("AA7:AA2800")

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Range("AB7").Select

Selection.AutoFill Destination:=Range("AB7:AB2800")

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Selection.AutoFill Destination:=Range("AC7:AC2800")

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Selection.AutoFill Destination:=Range("AD7:AD2800")

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Selection.AutoFill Destination:=Range("AE7:AE2800")

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Range("AH7:AH2800").Select
Range("AI7").Select

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Range("AI7:AI2800").Select
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Range("AJ7:AJ2800").Select
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Selection.AutoFill Destination:=Range("AK7:AK2800")
Range("AK7:AK2800").Select
Range("AL7").Select

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Selection.AutoFill Destination:=Range("AO7:AO2800")
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Range("AS7").Select

Selection.AutoFill Destination:=Range("AS7:AS2800")
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Range("AT7").Select

Selection.AutoFill Destination:=Range("AT7:AT2800")
Range("AT7:AT2800").Select
Range("AU7").Select

Selection.AutoFill Destination:=Range("AU7:AU2800")
Range("AU7:AU2800").Select
Range("AV7").Select

Selection.AutoFill Destination:=Range("AV7:AV2800")
Range("AV7:AV2800").Select
Range("AW7").Select

Selection.AutoFill Destination:=Range("AW7:AW2800")
Range("AW7:AW2800").Select
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Range("BB7").Select

Selection.AutoFill Destination:=Range("BB7:BB2800")
Range("BB7:BB2800").Select
Range("BC7").Select

Selection.AutoFill Destination:=Range("BC7:BC2800")
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Range("BD7").Select

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Range("BE7:BE2800").Select

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Selection.AutoFill Destination:=Range("BF7:BF2800")

Range("BF7:BF2800").Select

Range("BG7").Select

Selection.AutoFill Destination:=Range("BG7:BG2800")

Range("BG7:BG2800").Select

Range("BH7").Select

Selection.AutoFill Destination:=Range("BH7:BH2800")

Range("BH7:BH2800").Select

Range("BI7").Select

Selection.AutoFill Destination:=Range("BI7:BI2800")

Range("BI7:BI2800").Select

Range("BJ7").Select

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Range("BJ7:BJ2800").Select

Range("BK7").Select

Selection.AutoFill Destination:=Range("BK7:BK2800")

Range("BK7:BK2800").Select

Range("BL7").Select

Selection.AutoFill Destination:=Range("BL7:BL2800")

Range("BL7:BL2800").Select

Range("BM7").Select

Selection.AutoFill Destination:=Range("BM7:BM2800")

Range("BM7:BM2800").Select

Range("BN7").Select

Selection.AutoFill Destination:=Range("BN7:BN2800")

Range("BN7:BN2800").Select

Range("BO7").Select

Selection.AutoFill Destination:=Range("BO7:BO2800")

Range("BO7:BO2800").Select

Range("BP7").Select

Selection.AutoFill Destination:=Range("BP7:BP2800")

Range("BP7:BP2800").Select

Range("M6").Select

Range("AG2900").Select

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Range("AG2900:AG4304").Select

Range("AH2900").Select

Selection.AutoFill Destination:=Range("AH2900:AH4304")

Range("AH2900:AH4304").Select

Range("AI2900").Select

Selection.AutoFill Destination:=Range("AI2900:AI4304")

Range("AI2900:AI4304").Select

Range("AJ2900").Select

Selection.AutoFill Destination:=Range("AJ2900:AJ4304")

Range("AJ2900:AJ4304").Select

Range("AK2900").Select

Selection.AutoFill Destination:=Range("AK2900:AK4304")

Range("AK2900:AK4304").Select

Range("AL2900").Select

Selection.AutoFill Destination:=Range("AL2900:AL4304")

Range("AL2900:AL4304").Select

Range("AM2900").Select

Selection.AutoFill Destination:=Range("AM2900:AM4304")

Range("AM2900:AM4304").Select

Range("AN2900").Select

Selection.AutoFill Destination:=Range("AN2900:AN4304")

Range("AN2900:AN4304").Select

Range("AO2900").Select

Selection.AutoFill Destination:=Range("AO2900:AO4304")

Range("AO2900:AO4304").Select

Range("AP2900").Select

Selection.AutoFill Destination:=Range("AP2900:AP4304")

Range("AP2900:AP4304").Select

Range("AQ2900").Select

Selection.AutoFill Destination:=Range("AQ2900:AQ4304")

Range("AQ2900:AQ4304").Select

Range("AR2900").Select

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Selection.AutoFill Destination:=Range("AS2900:AS4304")

Range("AS2900:AS4304").Select
Range("AT2900").Select

Selection.AutoFill Destination:=Range("AT2900:AT4304")
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Selection.AutoFill Destination:=Range("AU2900:AU4304")
Range("AU2900:AU4304").Select
Range("AV2900").Select

Selection.AutoFill Destination:=Range("AV2900:AV4304")
Range("AV2900:AV4304").Select
Range("AW2900").Select
Selection.AutoFill Destination:=Range("AW2900:AW4304")
Range("AW2900:AW4304").Select
Range("AX2900").Select

Selection.AutoFill Destination:=Range("AX2900:AX4304")
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Range("Y2").Select

Sheets("23a").Select

Range("X7").Select

Selection.AutoFill Destination:=Range("X7:X2800")
Range("X7:X2800").Select
Range("Y7").Select

Selection.AutoFill Destination:=Range("Y7:Y2800")
Range("Y7:Y2800").Select
Range("Z7").Select

Selection.AutoFill Destination:=Range("Z7:Z2800")
Range("Z7:Z2800").Select
Range("AA7").Select

Selection.AutoFill Destination:=Range("AA7:AA2800")
Range("AA7:AA2800").Select
Range("AB7").Select

Selection.AutoFill Destination:=Range("AB7:AB2800")
Range("AB7:AB2800").Select
Range("AC7").Select

Selection.AutoFill Destination:=Range("AC7:AC2800")
Range("AC7:AC2800").Select
Range("AD7").Select

Selection.AutoFill Destination:=Range("AD7:AD2800")
Range("AD7:AD2800").Select
Range("AE7").Select

Selection.AutoFill Destination:=Range("AE7:AE2800")
Range("AE7:AE2800").Select
Range("AF7").Select

Selection.AutoFill Destination:=Range("AF7:AF2800")
Range("AF7:AF2800").Select
Range("AG7").Select

Selection.AutoFill Destination:=Range("AG7:AG2800")
Range("AG7:AG2800").Select
Range("AH7").Select

Selection.AutoFill Destination:=Range("AH7:AH2800")
Range("AH7:AH2800").Select
Range("AI7").Select

Selection.AutoFill Destination:=Range("AI7:AI2800")
Range("AI7:AI2800").Select
Range("AJ7").Select

Selection.AutoFill Destination:=Range("AJ7:AJ2800")
Range("AJ7:AJ2800").Select
Range("AK7").Select

Selection.AutoFill Destination:=Range("AK7:AK2800")
Range("AK7:AK2800").Select
Range("AL7").Select

Selection.AutoFill Destination:=Range("AL7:AL2800")
Range("AL7:AL2800").Select
Range("AM7").Select

Selection.AutoFill Destination:=Range("AM7:AM2800")
Range("AM7:AM2800").Select
Range("AN7").Select

Selection.AutoFill Destination:=Range("AN7:AN2800")
Range("AN7:AN2800").Select
Range("AO7").Select

Selection.AutoFill Destination:=Range("AO7:AO2800")
Range("AO7:AO2800").Select
Range("AP7").Select

Selection.AutoFill Destination:=Range("AP7:AP2800")
Range("AP7:AP2800").Select
Range("AQ7").Select

Selection.AutoFill Destination:=Range("AQ7:AQ2800")
Range("AQ7:AQ2800").Select
Range("AR7").Select

Selection.AutoFill Destination:=Range("AR7:AR2800")
Range("AR7:AR2800").Select
Range("AS7").Select

Selection.AutoFill Destination:=Range("AS7:AS2800")
Range("AS7:AS2800").Select
Range("AT7").Select

Selection.AutoFill Destination:=Range("AT7:AT2800")
Range("AT7:AT2800").Select
Range("AU7").Select

Selection.AutoFill Destination:=Range("AU7:AU2800")
Range("AU7:AU2800").Select
Range("AV7").Select

Selection.AutoFill Destination:=Range("AV7:AV2800")
Range("AV7:AV2800").Select
Range("AW7").Select

Selection.AutoFill Destination:=Range("AW7:AW2800")
Range("AW7:AW2800").Select
Range("AX7").Select

Selection.AutoFill Destination:=Range("AX7:AX2800")
Range("AX7:AX2800").Select
Range("AY7").Select

Selection.AutoFill Destination:=Range("AY7:AY2800")
Range("AY7:AY2800").Select
Range("AZ7").Select

Selection.AutoFill Destination:=Range("AZ7:AZ2800")
Range("AZ7:AZ2800").Select
Range("BA7").Select

Selection.AutoFill Destination:=Range("BA7:BA2800")
Range("BA7:BA2800").Select
Range("BB7").Select

Selection.AutoFill Destination:=Range("BB7:BB2800")
Range("BB7:BB2800").Select
Range("BC7").Select

Selection.AutoFill Destination:=Range("BC7:BC2800")
Range("BC7:BC2800").Select
Range("BD7").Select

Selection.AutoFill Destination:=Range("BD7:BD2800")
Range("BD7:BD2800").Select
Range("BE7").Select

Selection.AutoFill Destination:=Range("BE7:BE2800")

Range("BE7:BE2800").Select
Range("BF7").Select

Selection.AutoFill Destination:=Range("BF7:BF2800")
Range("BF7:BF2800").Select
Range("BG7").Select

Selection.AutoFill Destination:=Range("BG7:BG2800")
Range("BG7:BG2800").Select
Range("BH7").Select

Selection.AutoFill Destination:=Range("BH7:BH2800")
Range("BH7:BH2800").Select
Range("BI7").Select

Selection.AutoFill Destination:=Range("BI7:BI2800")
Range("BI7:BI2800").Select
Range("BJ7").Select

Selection.AutoFill Destination:=Range("BJ7:BJ2800")
Range("BJ7:BJ2800").Select
Range("BK7").Select

Selection.AutoFill Destination:=Range("BK7:BK2800")
Range("BK7:BK2800").Select
Range("BL7").Select

Selection.AutoFill Destination:=Range("BL7:BL2800")
Range("BL7:BL2800").Select
Range("BM7").Select

Selection.AutoFill Destination:=Range("BM7:BM2800")
Range("BM7:BM2800").Select
Range("BN7").Select

Selection.AutoFill Destination:=Range("BN7:BN2800")
Range("BN7:BN2800").Select
Range("BO7").Select

Selection.AutoFill Destination:=Range("BO7:BO2800")
Range("BO7:BO2800").Select
Range("BP7").Select

Selection.AutoFill Destination:=Range("BP7:BP2800")
Range("BP7:BP2800").Select
Range("M6").Select

Range("AG2900").Select

Selection.AutoFill Destination:=Range("AG2900:AG4304")
Range("AG2900:AG4304").Select
Range("AH2900").Select

Selection.AutoFill Destination:=Range("AH2900:AH4304")
Range("AH2900:AH4304").Select
Range("AI2900").Select

Selection.AutoFill Destination:=Range("AI2900:AI4304")
Range("AI2900:AI4304").Select
Range("AJ2900").Select

Selection.AutoFill Destination:=Range("AJ2900:AJ4304")
Range("AJ2900:AJ4304").Select
Range("AK2900").Select

Selection.AutoFill Destination:=Range("AK2900:AK4304")
Range("AK2900:AK4304").Select
Range("AL2900").Select

Selection.AutoFill Destination:=Range("AL2900:AL4304")
Range("AL2900:AL4304").Select
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Selection.AutoFill Destination:=Range("AM2900:AM4304")
Range("AM2900:AM4304").Select
Range("AN2900").Select

Selection.AutoFill Destination:=Range("AN2900:AN4304")
Range("AN2900:AN4304").Select
Range("AO2900").Select

Selection.AutoFill Destination:=Range("AO2900:AO4304")
Range("AO2900:AO4304").Select
Range("AP2900").Select

Selection.AutoFill Destination:=Range("AP2900:AP4304")
Range("AP2900:AP4304").Select
Range("AQ2900").Select

Selection.AutoFill Destination:=Range("AQ2900:AQ4304")
Range("AQ2900:AQ4304").Select
Range("AR2900").Select

Selection.AutoFill Destination:=Range("AR2900:AR4304")
Range("AR2900:AR4304").Select
Range("AS2900").Select

Selection.AutoFill Destination:=Range("AS2900:AS4304")
Range("AS2900:AS4304").Select
Range("AT2900").Select

Selection.AutoFill Destination:=Range("AT2900:AT4304")
Range("AT2900:AT4304").Select
Range("AU2900").Select

Selection.AutoFill Destination:=Range("AU2900:AU4304")

Range("AU2900:AU4304").Select
Range("AV2900").Select

Selection.AutoFill Destination:=Range("AV2900:AV4304")
Range("AV2900:AV4304").Select
Range("AW2900").Select

Selection.AutoFill Destination:=Range("AW2900:AW4304")
Range("AW2900:AW4304").Select
Range("AX2900").Select

Selection.AutoFill Destination:=Range("AX2900:AX4304")
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Sheets("24a").Select

Range("X7").Select

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Range("Y7").Select

Selection.AutoFill Destination:=Range("Y7:Y2800")
Range("Y7:Y2800").Select

Range("Z7").Select

Selection.AutoFill Destination:=Range("Z7:Z2800")
Range("Z7:Z2800").Select
Range("AA7").Select

Selection.AutoFill Destination:=Range("AA7:AA2800")
Range("AA7:AA2800").Select
Range("AB7").Select

Selection.AutoFill Destination:=Range("AB7:AB2800")
Range("AB7:AB2800").Select
Range("AC7").Select

Selection.AutoFill Destination:=Range("AC7:AC2800")
Range("AC7:AC2800").Select
Range("AD7").Select

Selection.AutoFill Destination:=Range("AD7:AD2800")
Range("AD7:AD2800").Select
Range("AE7").Select

Selection.AutoFill Destination:=Range("AE7:AE2800")
Range("AE7:AE2800").Select
Range("AF7").Select

Selection.AutoFill Destination:=Range("AF7:AF2800")

Range("AF7:AF2800").Select
Range("AG7").Select

Selection.AutoFill Destination:=Range("AG7:AG2800")
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Selection.AutoFill Destination:=Range("AH7:AH2800")
Range("AH7:AH2800").Select
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Selection.AutoFill Destination:=Range("AI7:AI2800")
Range("AI7:AI2800").Select

Range("AJ7").Select

Selection.AutoFill Destination:=Range("AJ7:AJ2800")
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Selection.AutoFill Destination:=Range("AK7:AK2800")
Range("AK7:AK2800").Select
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Selection.AutoFill Destination:=Range("AM7:AM2800")
Range("AM7:AM2800").Select
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Selection.AutoFill Destination:=Range("AN7:AN2800")
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Selection.AutoFill Destination:=Range("AO7:AO2800")
Range("AO7:AO2800").Select
Range("AP7").Select

Selection.AutoFill Destination:=Range("AP7:AP2800")
Range("AP7:AP2800").Select
Range("AQ7").Select

Selection.AutoFill Destination:=Range("AQ7:AQ2800")
Range("AQ7:AQ2800").Select
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Selection.AutoFill Destination:=Range("AR7:AR2800")
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Selection.AutoFill Destination:=Range("AS7:AS2800")

Range("AS7:AS2800").Select

Range("AT7").Select

Selection.AutoFill Destination:=Range("AT7:AT2800")

Range("AT7:AT2800").Select

Range("AU7").Select

Selection.AutoFill Destination:=Range("AU7:AU2800")

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Range("AV7").Select

Selection.AutoFill Destination:=Range("AV7:AV2800")

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Range("AW7").Select

Selection.AutoFill Destination:=Range("AW7:AW2800")

Range("AW7:AW2800").Select

Range("AX7").Select

Selection.AutoFill Destination:=Range("AX7:AX2800")

Range("AX7:AX2800").Select

Range("AY7").Select

Selection.AutoFill Destination:=Range("AY7:AY2800")

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Range("AZ7").Select

Selection.AutoFill Destination:=Range("AZ7:AZ2800")

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Range("BA7").Select

Selection.AutoFill Destination:=Range("BA7:BA2800")

Range("BA7:BA2800").Select

Range("BB7").Select

Selection.AutoFill Destination:=Range("BB7:BB2800")

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Range("BC7").Select

Selection.AutoFill Destination:=Range("BC7:BC2800")

Range("BC7:BC2800").Select

Range("BD7").Select

Selection.AutoFill Destination:=Range("BD7:BD2800")

Range("BD7:BD2800").Select

Range("BE7").Select

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Range("BF7").Select

Selection.AutoFill Destination:=Range("BF7:BF2800")
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Range("BG7").Select

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Range("BH7").Select

Selection.AutoFill Destination:=Range("BH7:BH2800")
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Range("BI7").Select

Selection.AutoFill Destination:=Range("BI7:BI2800")
Range("BI7:BI2800").Select
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Selection.AutoFill Destination:=Range("BJ7:BJ2800")
Range("BJ7:BJ2800").Select
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Selection.AutoFill Destination:=Range("BK7:BK2800")
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Selection.AutoFill Destination:=Range("BL7:BL2800")
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Range("BN7").Select

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Selection.AutoFill Destination:=Range("BO7:BO2800")
Range("BO7:BO2800").Select
Range("BP7").Select

Selection.AutoFill Destination:=Range("BP7:BP2800")
Range("BP7:BP2800").Select
Range("M6").Select

Range("AG2900").Select

Selection.AutoFill Destination:=Range("AG2900:AG4304")
Range("AG2900:AG4304").Select
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Selection.AutoFill Destination:=Range("AH2900:AH4304")
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Range("AI2900").Select

Selection.AutoFill Destination:=Range("AI2900:AI4304")

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Range("AJ2900").Select

Selection.AutoFill Destination:=Range("AJ2900:AJ4304")

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Range("AK2900").Select

Selection.AutoFill Destination:=Range("AK2900:AK4304")

Range("AK2900:AK4304").Select

Range("AL2900").Select

Selection.AutoFill Destination:=Range("AL2900:AL4304")

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Selection.AutoFill Destination:=Range("AM2900:AM4304")

Range("AM2900:AM4304").Select

Range("AN2900").Select

Selection.AutoFill Destination:=Range("AN2900:AN4304")

Range("AN2900:AN4304").Select

Range("AO2900").Select

Selection.AutoFill Destination:=Range("AO2900:AO4304")

Range("AO2900:AO4304").Select

Range("AP2900").Select

Selection.AutoFill Destination:=Range("AP2900:AP4304")

Range("AP2900:AP4304").Select

Range("AQ2900").Select

Selection.AutoFill Destination:=Range("AQ2900:AQ4304")

Range("AQ2900:AQ4304").Select

Range("AR2900").Select

Selection.AutoFill Destination:=Range("AR2900:AR4304")

Range("AR2900:AR4304").Select

Range("AS2900").Select

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Range("AS2900:AS4304").Select

Range("AT2900").Select

Selection.AutoFill Destination:=Range("AT2900:AT4304")

Range("AT2900:AT4304").Select

Range("AU2900").Select

Selection.AutoFill Destination:=Range("AU2900:AU4304")

Range("AU2900:AU4304").Select

Range("AV2900").Select

Selection.AutoFill Destination:=Range("AV2900:AV4304")
Range("AV2900:AV4304").Select
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Range("AW2900:AW4304").Select
Range("AX2900").Select

Selection.AutoFill Destination:=Range("AX2900:AX4304")
Range("AX2900:AX4304").Select
Range("Y2").Select

Sheets("31a").Select

Range("X7").Select

Selection.AutoFill Destination:=Range("X7:X2800")
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Range("Y7").Select

Selection.AutoFill Destination:=Range("Y7:Y2800")
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Selection.AutoFill Destination:=Range("Z7:Z2800")
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Selection.AutoFill Destination:=Range("AA7:AA2800")
Range("AA7:AA2800").Select
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Selection.AutoFill Destination:=Range("AB7:AB2800")
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Range("AC7").Select

Selection.AutoFill Destination:=Range("AC7:AC2800")
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Selection.AutoFill Destination:=Range("AD7:AD2800")
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Range("AE7").Select

Selection.AutoFill Destination:=Range("AE7:AE2800")
Range("AE7:AE2800").Select
Range("AF7").Select

Selection.AutoFill Destination:=Range("AF7:AF2800")
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Selection.AutoFill Destination:=Range("AH7:AH2800")
Range("AH7:AH2800").Select
Range("AI7").Select

Selection.AutoFill Destination:=Range("AI7:AI2800")
Range("AI7:AI2800").Select
Range("AJ7").Select

Selection.AutoFill Destination:=Range("AJ7:AJ2800")
Range("AJ7:AJ2800").Select
Range("AK7").Select

Selection.AutoFill Destination:=Range("AK7:AK2800")
Range("AK7:AK2800").Select
Range("AL7").Select

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Selection.AutoFill Destination:=Range("AM7:AM2800")
Range("AM7:AM2800").Select
Range("AN7").Select

Selection.AutoFill Destination:=Range("AN7:AN2800")
Range("AN7:AN2800").Select

Range("AO7").Select

Selection.AutoFill Destination:=Range("AO7:AO2800")
Range("AO7:AO2800").Select
Range("AP7").Select

Selection.AutoFill Destination:=Range("AP7:AP2800")
Range("AP7:AP2800").Select
Range("AQ7").Select

Selection.AutoFill Destination:=Range("AQ7:AQ2800")
Range("AQ7:AQ2800").Select
Range("AR7").Select

Selection.AutoFill Destination:=Range("AR7:AR2800")
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Range("AS7").Select

Selection.AutoFill Destination:=Range("AS7:AS2800")
Range("AS7:AS2800").Select
Range("AT7").Select

Selection.AutoFill Destination:=Range("AT7:AT2800")
Range("AT7:AT2800").Select
Range("AU7").Select

Selection.AutoFill Destination:=Range("AU7:AU2800")
Range("AU7:AU2800").Select
Range("AV7").Select

Selection.AutoFill Destination:=Range("AV7:AV2800")
Range("AV7:AV2800").Select
Range("AW7").Select

Selection.AutoFill Destination:=Range("AW7:AW2800")
Range("AW7:AW2800").Select
Range("AX7").Select

Selection.AutoFill Destination:=Range("AX7:AX2800")
Range("AX7:AX2800").Select

Range("AY7").Select

Selection.AutoFill Destination:=Range("AY7:AY2800")
Range("AY7:AY2800").Select
Range("AZ7").Select

Selection.AutoFill Destination:=Range("AZ7:AZ2800")
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Range("BA7").Select

Selection.AutoFill Destination:=Range("BA7:BA2800")
Range("BA7:BA2800").Select
Range("BB7").Select

Selection.AutoFill Destination:=Range("BB7:BB2800")
Range("BB7:BB2800").Select
Range("BC7").Select

Selection.AutoFill Destination:=Range("BC7:BC2800")
Range("BC7:BC2800").Select
Range("BD7").Select

Selection.AutoFill Destination:=Range("BD7:BD2800")
Range("BD7:BD2800").Select
Range("BE7").Select
Selection.AutoFill Destination:=Range("BE7:BE2800")
Range("BE7:BE2800").Select
Range("BF7").Select

Selection.AutoFill Destination:=Range("BF7:BF2800")
Range("BF7:BF2800").Select
Range("BG7").Select

Selection.AutoFill Destination:=Range("BG7:BG2800")
Range("BG7:BG2800").Select
Range("BH7").Select

Selection.AutoFill Destination:=Range("BH7:BH2800")
Range("BH7:BH2800").Select

Range("BI7").Select

Selection.AutoFill Destination:=Range("BI7:BI2800")
Range("BI7:BI2800").Select
Range("BJ7").Select

Selection.AutoFill Destination:=Range("BJ7:BJ2800")
Range("BJ7:BJ2800").Select
Range("BK7").Select

Selection.AutoFill Destination:=Range("BK7:BK2800")
Range("BK7:BK2800").Select
Range("BL7").Select

Selection.AutoFill Destination:=Range("BL7:BL2800")
Range("BL7:BL2800").Select
Range("BM7").Select

Selection.AutoFill Destination:=Range("BM7:BM2800")
Range("BM7:BM2800").Select
Range("BN7").Select

Selection.AutoFill Destination:=Range("BN7:BN2800")
Range("BN7:BN2800").Select
Range("BO7").Select

Selection.AutoFill Destination:=Range("BO7:BO2800")
Range("BO7:BO2800").Select
Range("BP7").Select

Selection.AutoFill Destination:=Range("BP7:BP2800")
Range("BP7:BP2800").Select
Range("M6").Select

Range("AG2900").Select

Selection.AutoFill Destination:=Range("AG2900:AG4304")
Range("AG2900:AG4304").Select

Range("AH2900").Select

Selection.AutoFill Destination:=Range("AH2900:AH4304")
Range("AH2900:AH4304").Select
Range("AI2900").Select

Selection.AutoFill Destination:=Range("AI2900:AI4304")
Range("AI2900:AI4304").Select
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Selection.AutoFill Destination:=Range("AJ2900:AJ4304")
Range("AJ2900:AJ4304").Select
Range("AK2900").Select

Selection.AutoFill Destination:=Range("AK2900:AK4304")
Range("AK2900:AK4304").Select
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Selection.AutoFill Destination:=Range("AL2900:AL4304")
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Selection.AutoFill Destination:=Range("AM2900:AM4304")
Range("AM2900:AM4304").Select
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Selection.AutoFill Destination:=Range("AN2900:AN4304")
Range("AN2900:AN4304").Select
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Selection.AutoFill Destination:=Range("AO2900:AO4304")
Range("AO2900:AO4304").Select
Range("AP2900").Select

Selection.AutoFill Destination:=Range("AP2900:AP4304")
Range("AP2900:AP4304").Select
Range("AQ2900").Select

Selection.AutoFill Destination:=Range("AQ2900:AQ4304")
Range("AQ2900:AQ4304").Select

Range("AR2900").Select

Selection.AutoFill Destination:=Range("AR2900:AR4304")
Range("AR2900:AR4304").Select
Range("AS2900").Select

Selection.AutoFill Destination:=Range("AS2900:AS4304")
Range("AS2900:AS4304").Select
Range("AT2900").Select

Selection.AutoFill Destination:=Range("AT2900:AT4304")
Range("AT2900:AT4304").Select
Range("AU2900").Select

Selection.AutoFill Destination:=Range("AU2900:AU4304")
Range("AU2900:AU4304").Select
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Selection.AutoFill Destination:=Range("AV2900:AV4304")
Range("AV2900:AV4304").Select
Range("AW2900").Select

Selection.AutoFill Destination:=Range("AW2900:AW4304")
Range("AW2900:AW4304").Select
Range("AX2900").Select

Selection.AutoFill Destination:=Range("AX2900:AX4304")
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Sheets("32a").Select

Range("X7").Select

Selection.AutoFill Destination:=Range("X7:X2800")
Range("X7:X2800").Select
Range("Y7").Select

Selection.AutoFill Destination:=Range("Y7:Y2800")
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Range("Z7").Select

Selection.AutoFill Destination:=Range("Z7:Z2800")
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Selection.AutoFill Destination:=Range("AA7:AA2800")
Range("AA7:AA2800").Select
Range("AB7").Select

Selection.AutoFill Destination:=Range("AB7:AB2800")
Range("AB7:AB2800").Select
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Selection.AutoFill Destination:=Range("AC7:AC2800")
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Selection.AutoFill Destination:=Range("AD7:AD2800")
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Selection.AutoFill Destination:=Range("AE7:AE2800")
Range("AE7:AE2800").Select
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Selection.AutoFill Destination:=Range("AF7:AF2800")
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Selection.AutoFill Destination:=Range("AG7:AG2800")

Range("AG7:AG2800").Select
Range("AH7").Select

Selection.AutoFill Destination:=Range("AH7:AH2800")
Range("AH7:AH2800").Select
Range("AI7").Select

Selection.AutoFill Destination:=Range("AI7:AI2800")
Range("AI7:AI2800").Select

Range("AJ7").Select

Selection.AutoFill Destination:=Range("AJ7:AJ2800")
Range("AJ7:AJ2800").Select
Range("AK7").Select

Selection.AutoFill Destination:=Range("AK7:AK2800")
Range("AK7:AK2800").Select
Range("AL7").Select

Selection.AutoFill Destination:=Range("AL7:AL2800")
Range("AL7:AL2800").Select
Range("AM7").Select

Selection.AutoFill Destination:=Range("AM7:AM2800")
Range("AM7:AM2800").Select
Range("AN7").Select

Selection.AutoFill Destination:=Range("AN7:AN2800")
Range("AN7:AN2800").Select
Range("AO7").Select

Selection.AutoFill Destination:=Range("AO7:AO2800")
Range("AO7:AO2800").Select
Range("AP7").Select

Selection.AutoFill Destination:=Range("AP7:AP2800")
Range("AP7:AP2800").Select
Range("AQ7").Select

Selection.AutoFill Destination:=Range("AQ7:AQ2800")
Range("AQ7:AQ2800").Select
Range("AR7").Select

Selection.AutoFill Destination:=Range("AR7:AR2800")
Range("AR7:AR2800").Select
Range("AS7").Select

Selection.AutoFill Destination:=Range("AS7:AS2800")
Range("AS7:AS2800").Select

Range("AT7").Select

Selection.AutoFill Destination:=Range("AT7:AT2800")
Range("AT7:AT2800").Select
Range("AU7").Select

Selection.AutoFill Destination:=Range("AU7:AU2800")
Range("AU7:AU2800").Select
Range("AV7").Select

Selection.AutoFill Destination:=Range("AV7:AV2800")
Range("AV7:AV2800").Select
Range("AW7").Select

Selection.AutoFill Destination:=Range("AW7:AW2800")
Range("AW7:AW2800").Select
Range("AX7").Select

Selection.AutoFill Destination:=Range("AX7:AX2800")
Range("AX7:AX2800").Select
Range("AY7").Select

Selection.AutoFill Destination:=Range("AY7:AY2800")
Range("AY7:AY2800").Select
Range("AZ7").Select

Selection.AutoFill Destination:=Range("AZ7:AZ2800")
Range("AZ7:AZ2800").Select
Range("BA7").Select

Selection.AutoFill Destination:=Range("BA7:BA2800")
Range("BA7:BA2800").Select
Range("BB7").Select

Selection.AutoFill Destination:=Range("BB7:BB2800")
Range("BB7:BB2800").Select
Range("BC7").Select

Selection.AutoFill Destination:=Range("BC7:BC2800")
Range("BC7:BC2800").Select

Range("BD7").Select

Selection.AutoFill Destination:=Range("BD7:BD2800")
Range("BD7:BD2800").Select
Range("BE7").Select

Selection.AutoFill Destination:=Range("BE7:BE2800")
Range("BE7:BE2800").Select
Range("BF7").Select

Selection.AutoFill Destination:=Range("BF7:BF2800")
Range("BF7:BF2800").Select
Range("BG7").Select

Selection.AutoFill Destination:=Range("BG7:BG2800")
Range("BG7:BG2800").Select
Range("BH7").Select

Selection.AutoFill Destination:=Range("BH7:BH2800")
Range("BH7:BH2800").Select
Range("BI7").Select

Selection.AutoFill Destination:=Range("BI7:BI2800")
Range("BI7:BI2800").Select
Range("BJ7").Select

Selection.AutoFill Destination:=Range("BJ7:BJ2800")
Range("BJ7:BJ2800").Select
Range("BK7").Select

Selection.AutoFill Destination:=Range("BK7:BK2800")
Range("BK7:BK2800").Select
Range("BL7").Select

Selection.AutoFill Destination:=Range("BL7:BL2800")
Range("BL7:BL2800").Select
Range("BM7").Select

Selection.AutoFill Destination:=Range("BM7:BM2800")
Range("BM7:BM2800").Select

Range("BN7").Select

Selection.AutoFill Destination:=Range("BN7:BN2800")
Range("BN7:BN2800").Select
Range("BO7").Select

Selection.AutoFill Destination:=Range("BO7:BO2800")
Range("BO7:BO2800").Select
Range("BP7").Select

Selection.AutoFill Destination:=Range("BP7:BP2800")
Range("BP7:BP2800").Select
Range("M6").Select

Range("AG2900").Select

Selection.AutoFill Destination:=Range("AG2900:AG4304")
Range("AG2900:AG4304").Select
Range("AH2900").Select

Selection.AutoFill Destination:=Range("AH2900:AH4304")
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Range("AI2900").Select

Selection.AutoFill Destination:=Range("AI2900:AI4304")

Range("AI2900:AI4304").Select
Range("AJ2900").Select

Selection.AutoFill Destination:=Range("AJ2900:AJ4304")
Range("AJ2900:AJ4304").Select
Range("AK2900").Select

Selection.AutoFill Destination:=Range("AK2900:AK4304")
Range("AK2900:AK4304").Select
Range("AL2900").Select

Selection.AutoFill Destination:=Range("AL2900:AL4304")
Range("AL2900:AL4304").Select
Range("AM2900").Select

Selection.AutoFill Destination:=Range("AM2900:AM4304")
Range("AM2900:AM4304").Select
Range("AN2900").Select

Selection.AutoFill Destination:=Range("AN2900:AN4304")
Range("AN2900:AN4304").Select
Range("AO2900").Select

Selection.AutoFill Destination:=Range("AO2900:AO4304")
Range("AO2900:AO4304").Select
Range("AP2900").Select

Selection.AutoFill Destination:=Range("AP2900:AP4304")
Range("AP2900:AP4304").Select
Range("AQ2900").Select

Selection.AutoFill Destination:=Range("AQ2900:AQ4304")
Range("AQ2900:AQ4304").Select
Range("AR2900").Select

Selection.AutoFill Destination:=Range("AR2900:AR4304")
Range("AR2900:AR4304").Select
Range("AS2900").Select

Selection.AutoFill Destination:=Range("AS2900:AS4304")
Range("AS2900:AS4304").Select
Range("AT2900").Select

Selection.AutoFill Destination:=Range("AT2900:AT4304")
Range("AT2900:AT4304").Select
Range("AU2900").Select

Selection.AutoFill Destination:=Range("AU2900:AU4304")
Range("AU2900:AU4304").Select
Range("AV2900").Select

Selection.AutoFill Destination:=Range("AV2900:AV4304")
Range("AV2900:AV4304").Select

```
Range("AW2900").Select

Selection.AutoFill Destination:=Range("AW2900:AW4304")
Range("AW2900:AW4304").Select
Range("AX2900").Select

Selection.AutoFill Destination:=Range("AX2900:AX4304")
Range("AX2900:AX4304").Select
Range("Y2").Select

End Sub
Sub vonpiter10()
'
' vonpiter10 Macro

' Macro gravada em 16/06/2009 por jpietron

" Atalho do teclado: Ctrl+Shift+S
  Sheets("33a").Select

  Range("X7").Select

  Selection.AutoFill Destination:=Range("X7:X2800")
  Range("X7:X2800").Select
  Range("Y7").Select

  Selection.AutoFill Destination:=Range("Y7:Y2800")
  Range("Y7:Y2800").Select
  Range("Z7").Select

  Selection.AutoFill Destination:=Range("Z7:Z2800")
  Range("Z7:Z2800").Select
  Range("AA7").Select

  Selection.AutoFill Destination:=Range("AA7:AA2800")
  Range("AA7:AA2800").Select
  Range("AB7").Select

  Selection.AutoFill Destination:=Range("AB7:AB2800")
  Range("AB7:AB2800").Select
  Range("AC7").Select

  Selection.AutoFill Destination:=Range("AC7:AC2800")
  Range("AC7:AC2800").Select
  Range("AD7").Select

  Selection.AutoFill Destination:=Range("AD7:AD2800")
  Range("AD7:AD2800").Select
  Range("AE7").Select

  Selection.AutoFill Destination:=Range("AE7:AE2800")
  Range("AE7:AE2800").Select
  Range("AF7").Select
```

Selection.AutoFill Destination:=Range("AF7:AF2800")
Range("AF7:AF2800").Select
Range("AG7").Select

Selection.AutoFill Destination:=Range("AG7:AG2800")
Range("AG7:AG2800").Select
Range("AH7").Select

Selection.AutoFill Destination:=Range("AH7:AH2800")
Range("AH7:AH2800").Select
Range("AI7").Select

Selection.AutoFill Destination:=Range("AI7:AI2800")
Range("AI7:AI2800").Select
Range("AJ7").Select

Selection.AutoFill Destination:=Range("AJ7:AJ2800")
Range("AJ7:AJ2800").Select
Range("AK7").Select

Selection.AutoFill Destination:=Range("AK7:AK2800")
Range("AK7:AK2800").Select
Range("AL7").Select

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Range("AL7:AL2800").Select
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Selection.AutoFill Destination:=Range("AM7:AM2800")
Range("AM7:AM2800").Select
Range("AN7").Select

Selection.AutoFill Destination:=Range("AN7:AN2800")
Range("AN7:AN2800").Select
Range("AO7").Select

Selection.AutoFill Destination:=Range("AO7:AO2800")
Range("AO7:AO2800").Select
Range("AP7").Select

Selection.AutoFill Destination:=Range("AP7:AP2800")
Range("AP7:AP2800").Select
Range("AQ7").Select

Selection.AutoFill Destination:=Range("AQ7:AQ2800")
Range("AQ7:AQ2800").Select
Range("AR7").Select

Selection.AutoFill Destination:=Range("AR7:AR2800")
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Range("AS7").Select

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Selection.AutoFill Destination:=Range("AT7:AT2800")
Range("AT7:AT2800").Select
Range("AU7").Select

Selection.AutoFill Destination:=Range("AU7:AU2800")
Range("AU7:AU2800").Select
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Range("AV7:AV2800").Select
Range("AW7").Select

Selection.AutoFill Destination:=Range("AW7:AW2800")
Range("AW7:AW2800").Select
Range("AX7").Select

Selection.AutoFill Destination:=Range("AX7:AX2800")
Range("AX7:AX2800").Select
Range("AY7").Select

Selection.AutoFill Destination:=Range("AY7:AY2800")
Range("AY7:AY2800").Select
Range("AZ7").Select

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Range("BB7:BB2800").Select
Range("BC7").Select

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Range("BC7:BC2800").Select
Range("BD7").Select

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Range("BD7:BD2800").Select
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Range("BE7:BE2800").Select
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Range("BG7").Select

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Range("BH7").Select

Selection.AutoFill Destination:=Range("BH7:BH2800")
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Range("BI7").Select

Selection.AutoFill Destination:=Range("BI7:BI2800")
Range("BI7:BI2800").Select
Range("BJ7").Select

Selection.AutoFill Destination:=Range("BJ7:BJ2800")
Range("BJ7:BJ2800").Select
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Selection.AutoFill Destination:=Range("BK7:BK2800")
Range("BK7:BK2800").Select
Range("BL7").Select

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Selection.AutoFill Destination:=Range("BM7:BM2800")
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Selection.AutoFill Destination:=Range("BN7:BN2800")
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Selection.AutoFill Destination:=Range("BO7:BO2800")
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Selection.AutoFill Destination:=Range("BP7:BP2800")
Range("BP7:BP2800").Select
Range("M6").Select

Range("AG2900").Select

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Range("AG2900:AG4304").Select
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Range("AI2900").Select

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Range("AI2900:AI4304").Select

Range("AJ2900").Select

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Range("AK2900").Select

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Range("AL2900").Select

Selection.AutoFill Destination:=Range("AL2900:AL4304")

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Range("AN2900").Select

Selection.AutoFill Destination:=Range("AN2900:AN4304")

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Range("AR2900").Select

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Range("AT2900").Select

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Sheets("34a").Select

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Selection.AutoFill Destination:=Range("AC7:AC2800")
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Selection.AutoFill Destination:=Range("AH7:AH2800")
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Selection.AutoFill Destination:=Range("AX7:AX2800")
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Selection.AutoFill Destination:=Range("AC7:AC2800")
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Selection.AutoFill Destination:=Range("AD7:AD2800")
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Range("AW7").Select

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Selection.AutoFill Destination:=Range("BC7:BC2800")
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Range("BD7").Select

Selection.AutoFill Destination:=Range("BD7:BD2800")
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Range("BE7").Select

Selection.AutoFill Destination:=Range("BE7:BE2800")
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Selection.AutoFill Destination:=Range("BF7:BF2800")
Range("BF7:BF2800").Select
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Selection.AutoFill Destination:=Range("BG7:BG2800")
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Range("BH7").Select

Selection.AutoFill Destination:=Range("BH7:BH2800")
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Range("BI7").Select

Selection.AutoFill Destination:=Range("BI7:BI2800")
Range("BI7:BI2800").Select
Range("BJ7").Select

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Selection.AutoFill Destination:=Range("BK7:BK2800")
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Range("BL7").Select

Selection.AutoFill Destination:=Range("BL7:BL2800")
Range("BL7:BL2800").Select
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Range("BO7").Select

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Range("BO7:BO2800").Select
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Selection.AutoFill Destination:=Range("BP7:BP2800")
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Range("AG2900").Select

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Selection.AutoFill Destination:=Range("AJ2900:AJ4304")
Range("AJ2900:AJ4304").Select
Range("AK2900").Select

Selection.AutoFill Destination:=Range("AK2900:AK4304")
Range("AK2900:AK4304").Select
Range("AL2900").Select

Selection.AutoFill Destination:=Range("AL2900:AL4304")
Range("AL2900:AL4304").Select
Range("AM2900").Select

Selection.AutoFill Destination:=Range("AM2900:AM4304")
Range("AM2900:AM4304").Select

Range("AN2900").Select

Selection.AutoFill Destination:=Range("AN2900:AN4304")

Range("AN2900:AN4304").Select

Range("AO2900").Select

Selection.AutoFill Destination:=Range("AO2900:AO4304")

Range("AO2900:AO4304").Select

Range("AP2900").Select

Selection.AutoFill Destination:=Range("AP2900:AP4304")

Range("AP2900:AP4304").Select

Range("AQ2900").Select

Selection.AutoFill Destination:=Range("AQ2900:AQ4304")

Range("AQ2900:AQ4304").Select

Range("AR2900").Select

Selection.AutoFill Destination:=Range("AR2900:AR4304")

Range("AR2900:AR4304").Select

Range("AS2900").Select

Selection.AutoFill Destination:=Range("AS2900:AS4304")

Range("AS2900:AS4304").Select

Range("AT2900").Select

Selection.AutoFill Destination:=Range("AT2900:AT4304")

Range("AT2900:AT4304").Select

Range("AU2900").Select

Selection.AutoFill Destination:=Range("AU2900:AU4304")

Range("AU2900:AU4304").Select

Range("AV2900").Select

Selection.AutoFill Destination:=Range("AV2900:AV4304")

Range("AV2900:AV4304").Select

Range("AW2900").Select

Selection.AutoFill Destination:=Range("AW2900:AW4304")

Range("AW2900:AW4304").Select

Range("AX2900").Select

Selection.AutoFill Destination:=Range("AX2900:AX4304")

Range("AX2900:AX4304").Select

Range("Y2").Select

Sheets("42a").Select

Range("X7").Select

Selection.AutoFill Destination:=Range("X7:X2800")

Range("X7:X2800").Select

Range("Y7").Select

Selection.AutoFill Destination:=Range("Y7:Y2800")
Range("Y7:Y2800").Select
Range("Z7").Select

Selection.AutoFill Destination:=Range("Z7:Z2800")
Range("Z7:Z2800").Select
Range("AA7").Select

Selection.AutoFill Destination:=Range("AA7:AA2800")
Range("AA7:AA2800").Select
Range("AB7").Select

Selection.AutoFill Destination:=Range("AB7:AB2800")
Range("AB7:AB2800").Select
Range("AC7").Select

Selection.AutoFill Destination:=Range("AC7:AC2800")
Range("AC7:AC2800").Select
Range("AD7").Select

Selection.AutoFill Destination:=Range("AD7:AD2800")
Range("AD7:AD2800").Select

Range("AE7").Select

Selection.AutoFill Destination:=Range("AE7:AE2800")
Range("AE7:AE2800").Select
Range("AF7").Select

Selection.AutoFill Destination:=Range("AF7:AF2800")
Range("AF7:AF2800").Select
Range("AG7").Select

Selection.AutoFill Destination:=Range("AG7:AG2800")
Range("AG7:AG2800").Select
Range("AH7").Select

Selection.AutoFill Destination:=Range("AH7:AH2800")
Range("AH7:AH2800").Select
Range("AI7").Select

Selection.AutoFill Destination:=Range("AI7:AI2800")
Range("AI7:AI2800").Select
Range("AJ7").Select

Selection.AutoFill Destination:=Range("AJ7:AJ2800")
Range("AJ7:AJ2800").Select
Range("AK7").Select

Selection.AutoFill Destination:=Range("AK7:AK2800")
Range("AK7:AK2800").Select
Range("AL7").Select

```
Selection.AutoFill Destination:=Range("AL7:AL2800")  
Range("AL7:AL2800").Select  
Range("AM7").Select
```

```
Selection.AutoFill Destination:=Range("AM7:AM2800")  
Range("AM7:AM2800").Select  
Range("AN7").Select
```

```
Selection.AutoFill Destination:=Range("AN7:AN2800")
```

Range("AN7:AN2800").Select

Range("AO7").Select

Selection.AutoFill Destination:=Range("AO7:AO2800")

Range("AO7:AO2800").Select

Range("AP7").Select

Selection.AutoFill Destination:=Range("AP7:AP2800")

Range("AP7:AP2800").Select

Range("AQ7").Select

Selection.AutoFill Destination:=Range("AQ7:AQ2800")

Range("AQ7:AQ2800").Select

Range("AR7").Select

Selection.AutoFill Destination:=Range("AR7:AR2800")

Range("AR7:AR2800").Select

Range("AS7").Select

Selection.AutoFill Destination:=Range("AS7:AS2800")

Range("AS7:AS2800").Select

Range("AT7").Select

Selection.AutoFill Destination:=Range("AT7:AT2800")

Range("AT7:AT2800").Select

Range("AU7").Select

Selection.AutoFill Destination:=Range("AU7:AU2800")

Range("AU7:AU2800").Select

Range("AV7").Select

Selection.AutoFill Destination:=Range("AV7:AV2800")

Range("AV7:AV2800").Select

Range("AW7").Select

Selection.AutoFill Destination:=Range("AW7:AW2800")

Range("AW7:AW2800").Select

Range("AX7").Select

Selection.AutoFill Destination:=Range("AX7:AX2800")

Range("AX7:AX2800").Select

Range("AY7").Select

Selection.AutoFill Destination:=Range("AY7:AY2800")

Range("AY7:AY2800").Select

Range("AZ7").Select

Selection.AutoFill Destination:=Range("AZ7:AZ2800")

Range("AZ7:AZ2800").Select

Range("BA7").Select

Selection.AutoFill Destination:=Range("BA7:BA2800")
Range("BA7:BA2800").Select
Range("BB7").Select

Selection.AutoFill Destination:=Range("BB7:BB2800")
Range("BB7:BB2800").Select
Range("BC7").Select

Selection.AutoFill Destination:=Range("BC7:BC2800")
Range("BC7:BC2800").Select
Range("BD7").Select

Selection.AutoFill Destination:=Range("BD7:BD2800")
Range("BD7:BD2800").Select
Range("BE7").Select

Selection.AutoFill Destination:=Range("BE7:BE2800")
Range("BE7:BE2800").Select
Range("BF7").Select

Selection.AutoFill Destination:=Range("BF7:BF2800")
Range("BF7:BF2800").Select
Range("BG7").Select

Selection.AutoFill Destination:=Range("BG7:BG2800")
Range("BG7:BG2800").Select
Range("BH7").Select

Selection.AutoFill Destination:=Range("BH7:BH2800")
Range("BH7:BH2800").Select

Range("BI7").Select

Selection.AutoFill Destination:=Range("BI7:BI2800")
Range("BI7:BI2800").Select
Range("BJ7").Select

Selection.AutoFill Destination:=Range("BJ7:BJ2800")
Range("BJ7:BJ2800").Select
Range("BK7").Select

Selection.AutoFill Destination:=Range("BK7:BK2800")
Range("BK7:BK2800").Select
Range("BL7").Select

Selection.AutoFill Destination:=Range("BL7:BL2800")
Range("BL7:BL2800").Select
Range("BM7").Select

Selection.AutoFill Destination:=Range("BM7:BM2800")
Range("BM7:BM2800").Select
Range("BN7").Select

Selection.AutoFill Destination:=Range("BN7:BN2800")
Range("BN7:BN2800").Select
Range("BO7").Select

Selection.AutoFill Destination:=Range("BO7:BO2800")
Range("BO7:BO2800").Select
Range("BP7").Select

Selection.AutoFill Destination:=Range("BP7:BP2800")
Range("BP7:BP2800").Select
Range("M6").Select
Range("AG2900").Select

Selection.AutoFill Destination:=Range("AG2900:AG4304")
Range("AG2900:AG4304").Select
Range("AH2900").Select

Selection.AutoFill Destination:=Range("AH2900:AH4304")
Range("AH2900:AH4304").Select
Range("AI2900").Select

Selection.AutoFill Destination:=Range("AI2900:AI4304")
Range("AI2900:AI4304").Select
Range("AJ2900").Select

Selection.AutoFill Destination:=Range("AJ2900:AJ4304")
Range("AJ2900:AJ4304").Select
Range("AK2900").Select

Selection.AutoFill Destination:=Range("AK2900:AK4304")
Range("AK2900:AK4304").Select
Range("AL2900").Select

Selection.AutoFill Destination:=Range("AL2900:AL4304")
Range("AL2900:AL4304").Select
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Selection.AutoFill Destination:=Range("AM2900:AM4304")
Range("AM2900:AM4304").Select
Range("AN2900").Select

Selection.AutoFill Destination:=Range("AN2900:AN4304")
Range("AN2900:AN4304").Select
Range("AO2900").Select

Selection.AutoFill Destination:=Range("AO2900:AO4304")
Range("AO2900:AO4304").Select
Range("AP2900").Select

Selection.AutoFill Destination:=Range("AP2900:AP4304")
Range("AP2900:AP4304").Select
Range("AQ2900").Select

Selection.AutoFill Destination:=Range("AQ2900:AQ4304")
Range("AQ2900:AQ4304").Select
Range("AR2900").Select

Selection.AutoFill Destination:=Range("AR2900:AR4304")
Range("AR2900:AR4304").Select
Range("AS2900").Select

Selection.AutoFill Destination:=Range("AS2900:AS4304")
Range("AS2900:AS4304").Select
Range("AT2900").Select

Selection.AutoFill Destination:=Range("AT2900:AT4304")
Range("AT2900:AT4304").Select
Range("AU2900").Select

Selection.AutoFill Destination:=Range("AU2900:AU4304")
Range("AU2900:AU4304").Select
Range("AV2900").Select

Selection.AutoFill Destination:=Range("AV2900:AV4304")
Range("AV2900:AV4304").Select
Range("AW2900").Select

Selection.AutoFill Destination:=Range("AW2900:AW4304")
Range("AW2900:AW4304").Select
Range("AX2900").Select

Selection.AutoFill Destination:=Range("AX2900:AX4304")
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Range("Y2").Select

Sheets("43a").Select

Range("X7").Select

Selection.AutoFill Destination:=Range("X7:X2800")
Range("X7:X2800").Select
Range("Y7").Select

Selection.AutoFill Destination:=Range("Y7:Y2800")
Range("Y7:Y2800").Select

Range("Z7").Select

Selection.AutoFill Destination:=Range("Z7:Z2800")
Range("Z7:Z2800").Select
Range("AA7").Select

Selection.AutoFill Destination:=Range("AA7:AA2800")
Range("AA7:AA2800").Select
Range("AB7").Select

Selection.AutoFill Destination:=Range("AB7:AB2800")
Range("AB7:AB2800").Select
Range("AC7").Select

Selection.AutoFill Destination:=Range("AC7:AC2800")
Range("AC7:AC2800").Select
Range("AD7").Select

Selection.AutoFill Destination:=Range("AD7:AD2800")
Range("AD7:AD2800").Select
Range("AE7").Select

Selection.AutoFill Destination:=Range("AE7:AE2800")
Range("AE7:AE2800").Select
Range("AF7").Select

Selection.AutoFill Destination:=Range("AF7:AF2800")
Range("AF7:AF2800").Select
Range("AG7").Select

Selection.AutoFill Destination:=Range("AG7:AG2800")
Range("AG7:AG2800").Select
Range("AH7").Select

Selection.AutoFill Destination:=Range("AH7:AH2800")
Range("AH7:AH2800").Select
Range("AI7").Select

Selection.AutoFill Destination:=Range("AI7:AI2800")
Range("AI7:AI2800").Select

Range("AJ7").Select

Selection.AutoFill Destination:=Range("AJ7:AJ2800")
Range("AJ7:AJ2800").Select
Range("AK7").Select

Selection.AutoFill Destination:=Range("AK7:AK2800")
Range("AK7:AK2800").Select
Range("AL7").Select

Selection.AutoFill Destination:=Range("AL7:AL2800")
Range("AL7:AL2800").Select
Range("AM7").Select

Selection.AutoFill Destination:=Range("AM7:AM2800")
Range("AM7:AM2800").Select
Range("AN7").Select

Selection.AutoFill Destination:=Range("AN7:AN2800")
Range("AN7:AN2800").Select
Range("AO7").Select

Selection.AutoFill Destination:=Range("AO7:AO2800")
Range("AO7:AO2800").Select
Range("AP7").Select

Selection.AutoFill Destination:=Range("AP7:AP2800")
Range("AP7:AP2800").Select
Range("AQ7").Select

Selection.AutoFill Destination:=Range("AQ7:AQ2800")
Range("AQ7:AQ2800").Select
Range("AR7").Select

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Range("AS7").Select

Selection.AutoFill Destination:=Range("AS7:AS2800")

Range("AS7:AS2800").Select

Range("AT7").Select

Selection.AutoFill Destination:=Range("AT7:AT2800")

Range("AT7:AT2800").Select

Range("AU7").Select

Selection.AutoFill Destination:=Range("AU7:AU2800")

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Range("AV7").Select

Selection.AutoFill Destination:=Range("AV7:AV2800")

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Range("AW7").Select

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Range("AX7").Select

Selection.AutoFill Destination:=Range("AX7:AX2800")

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Range("AY7").Select

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Range("AZ7").Select

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Range("BB7").Select

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Range("BB7:BB2800").Select

Range("BC7").Select

Selection.AutoFill Destination:=Range("BC7:BC2800")

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Range("BD7").Select

Selection.AutoFill Destination:=Range("BD7:BD2800")

Range("BD7:BD2800").Select

Range("BE7").Select

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Range("BE7:BE2800").Select

Range("BF7").Select

Selection.AutoFill Destination:=Range("BF7:BF2800")
Range("BF7:BF2800").Select
Range("BG7").Select

Selection.AutoFill Destination:=Range("BG7:BG2800")
Range("BG7:BG2800").Select
Range("BH7").Select

Selection.AutoFill Destination:=Range("BH7:BH2800")
Range("BH7:BH2800").Select
Range("BI7").Select

Selection.AutoFill Destination:=Range("BI7:BI2800")
Range("BI7:BI2800").Select
Range("BJ7").Select

Selection.AutoFill Destination:=Range("BJ7:BJ2800")
Range("BJ7:BJ2800").Select
Range("BK7").Select

Selection.AutoFill Destination:=Range("BK7:BK2800")
Range("BK7:BK2800").Select
Range("BL7").Select

Selection.AutoFill Destination:=Range("BL7:BL2800")
Range("BL7:BL2800").Select
Range("BM7").Select

Selection.AutoFill Destination:=Range("BM7:BM2800")
Range("BM7:BM2800").Select

Range("BN7").Select

Selection.AutoFill Destination:=Range("BN7:BN2800")
Range("BN7:BN2800").Select
Range("BO7").Select

Selection.AutoFill Destination:=Range("BO7:BO2800")
Range("BO7:BO2800").Select
Range("BP7").Select

Selection.AutoFill Destination:=Range("BP7:BP2800")
Range("BP7:BP2800").Select
Range("M6").Select

Range("AG2900").Select

Selection.AutoFill Destination:=Range("AG2900:AG4304")
Range("AG2900:AG4304").Select
Range("AH2900").Select

Selection.AutoFill Destination:=Range("AH2900:AH4304")
Range("AH2900:AH4304").Select

Range("AI2900").Select

Selection.AutoFill Destination:=Range("AI2900:AI4304")

Range("AI2900:AI4304").Select

Range("AJ2900").Select

Selection.AutoFill Destination:=Range("AJ2900:AJ4304")

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Range("AK2900").Select

Selection.AutoFill Destination:=Range("AK2900:AK4304")

Range("AK2900:AK4304").Select

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Range("AN2900").Select

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Range("AO2900:AO4304").Select

Range("AP2900").Select

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Range("AP2900:AP4304").Select

Range("AQ2900").Select

Selection.AutoFill Destination:=Range("AQ2900:AQ4304")

Range("AQ2900:AQ4304").Select

Range("AR2900").Select

Selection.AutoFill Destination:=Range("AR2900:AR4304")

Range("AR2900:AR4304").Select

Range("AS2900").Select

Selection.AutoFill Destination:=Range("AS2900:AS4304")

Range("AS2900:AS4304").Select

Range("AT2900").Select

Selection.AutoFill Destination:=Range("AT2900:AT4304")

Range("AT2900:AT4304").Select

Range("AU2900").Select

Selection.AutoFill Destination:=Range("AU2900:AU4304")

Range("AU2900:AU4304").Select

Range("AV2900").Select

Selection.AutoFill Destination:=Range("AV2900:AV4304")

Range("AV2900:AV4304").Select

Range("AW2900").Select

Selection.AutoFill Destination:=Range("AW2900:AW4304")

Range("AW2900:AW4304").Select

Range("AX2900").Select

Selection.AutoFill Destination:=Range("AX2900:AX4304")

Range("AX2900:AX4304").Select

Range("Y2").Select

Sheets("44a").Select

Range("X7").Select

Selection.AutoFill Destination:=Range("X7:X2800")

Range("X7:X2800").Select

Range("Y7").Select

Selection.AutoFill Destination:=Range("Y7:Y2800")

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Range("Z7").Select

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Range("Z7:Z2800").Select

Range("AA7").Select

Selection.AutoFill Destination:=Range("AA7:AA2800")

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Range("AB7").Select

Selection.AutoFill Destination:=Range("AB7:AB2800")

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Selection.AutoFill Destination:=Range("AC7:AC2800")

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Range("AD7").Select

Selection.AutoFill Destination:=Range("AD7:AD2800")

Range("AD7:AD2800").Select

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Selection.AutoFill Destination:=Range("AE7:AE2800")

Range("AE7:AE2800").Select

Range("AF7").Select

Selection.AutoFill Destination:=Range("AF7:AF2800")

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Range("AH7").Select

Selection.AutoFill Destination:=Range("AH7:AH2800")
Range("AH7:AH2800").Select
Range("AI7").Select

Selection.AutoFill Destination:=Range("AI7:AI2800")
Range("AI7:AI2800").Select
Range("AJ7").Select

Selection.AutoFill Destination:=Range("AJ7:AJ2800")
Range("AJ7:AJ2800").Select
Range("AK7").Select

Selection.AutoFill Destination:=Range("AK7:AK2800")
Range("AK7:AK2800").Select
Range("AL7").Select

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Selection.AutoFill Destination:=Range("AM7:AM2800")
Range("AM7:AM2800").Select
Range("AN7").Select

Selection.AutoFill Destination:=Range("AN7:AN2800")
Range("AN7:AN2800").Select
Range("AO7").Select

Selection.AutoFill Destination:=Range("AO7:AO2800")
Range("AO7:AO2800").Select
Range("AP7").Select

Selection.AutoFill Destination:=Range("AP7:AP2800")
Range("AP7:AP2800").Select
Range("AQ7").Select

Selection.AutoFill Destination:=Range("AQ7:AQ2800")
Range("AQ7:AQ2800").Select
Range("AR7").Select

Selection.AutoFill Destination:=Range("AR7:AR2800")
Range("AR7:AR2800").Select
Range("AS7").Select

Selection.AutoFill Destination:=Range("AS7:AS2800")
Range("AS7:AS2800").Select
Range("AT7").Select

Selection.AutoFill Destination:=Range("AT7:AT2800")

Range("AT7:AT2800").Select
Range("AU7").Select

Selection.AutoFill Destination:=Range("AU7:AU2800")
Range("AU7:AU2800").Select
Range("AV7").Select

Selection.AutoFill Destination:=Range("AV7:AV2800")
Range("AV7:AV2800").Select
Range("AW7").Select

Selection.AutoFill Destination:=Range("AW7:AW2800")
Range("AW7:AW2800").Select
Range("AX7").Select
Selection.AutoFill Destination:=Range("AX7:AX2800")
Range("AX7:AX2800").Select
Range("AY7").Select

Selection.AutoFill Destination:=Range("AY7:AY2800")
Range("AY7:AY2800").Select
Range("AZ7").Select

Selection.AutoFill Destination:=Range("AZ7:AZ2800")
Range("AZ7:AZ2800").Select
Range("BA7").Select

Selection.AutoFill Destination:=Range("BA7:BA2800")
Range("BA7:BA2800").Select
Range("BB7").Select

Selection.AutoFill Destination:=Range("BB7:BB2800")
Range("BB7:BB2800").Select
Range("BC7").Select

Selection.AutoFill Destination:=Range("BC7:BC2800")
Range("BC7:BC2800").Select
Range("BD7").Select

Selection.AutoFill Destination:=Range("BD7:BD2800")
Range("BD7:BD2800").Select
Range("BE7").Select

Selection.AutoFill Destination:=Range("BE7:BE2800")
Range("BE7:BE2800").Select
Range("BF7").Select

Selection.AutoFill Destination:=Range("BF7:BF2800")
Range("BF7:BF2800").Select
Range("BG7").Select

Selection.AutoFill Destination:=Range("BG7:BG2800")
Range("BG7:BG2800").Select
Range("BH7").Select

Selection.AutoFill Destination:=Range("BH7:BH2800")
Range("BH7:BH2800").Select
Range("BI7").Select

Selection.AutoFill Destination:=Range("BI7:BI2800")
Range("BI7:BI2800").Select
Range("BJ7").Select

Selection.AutoFill Destination:=Range("BJ7:BJ2800")
Range("BJ7:BJ2800").Select
Range("BK7").Select

Selection.AutoFill Destination:=Range("BK7:BK2800")
Range("BK7:BK2800").Select
Range("BL7").Select

Selection.AutoFill Destination:=Range("BL7:BL2800")
Range("BL7:BL2800").Select
Range("BM7").Select

Selection.AutoFill Destination:=Range("BM7:BM2800")
Range("BM7:BM2800").Select
Range("BN7").Select

Selection.AutoFill Destination:=Range("BN7:BN2800")
Range("BN7:BN2800").Select
Range("BO7").Select

Selection.AutoFill Destination:=Range("BO7:BO2800")
Range("BO7:BO2800").Select
Range("BP7").Select

Selection.AutoFill Destination:=Range("BP7:BP2800")
Range("BP7:BP2800").Select
Range("M6").Select

Range("AG2900").Select
Selection.AutoFill Destination:=Range("AG2900:AG4304")
Range("AG2900:AG4304").Select
Range("AH2900").Select

Selection.AutoFill Destination:=Range("AH2900:AH4304")
Range("AH2900:AH4304").Select
Range("AI2900").Select

Selection.AutoFill Destination:=Range("AI2900:AI4304")
Range("AI2900:AI4304").Select
Range("AJ2900").Select

Selection.AutoFill Destination:=Range("AJ2900:AJ4304")
Range("AJ2900:AJ4304").Select
Range("AK2900").Select

Selection.AutoFill Destination:=Range("AK2900:AK4304")
Range("AK2900:AK4304").Select
Range("AL2900").Select

Selection.AutoFill Destination:=Range("AL2900:AL4304")
Range("AL2900:AL4304").Select
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Selection.AutoFill Destination:=Range("AM2900:AM4304")
Range("AM2900:AM4304").Select
Range("AN2900").Select

Selection.AutoFill Destination:=Range("AN2900:AN4304")
Range("AN2900:AN4304").Select
Range("AO2900").Select

Selection.AutoFill Destination:=Range("AO2900:AO4304")
Range("AO2900:AO4304").Select
Range("AP2900").Select

Selection.AutoFill Destination:=Range("AP2900:AP4304")
Range("AP2900:AP4304").Select
Range("AQ2900").Select
Selection.AutoFill Destination:=Range("AQ2900:AQ4304")
Range("AQ2900:AQ4304").Select
Range("AR2900").Select

Selection.AutoFill Destination:=Range("AR2900:AR4304")
Range("AR2900:AR4304").Select
Range("AS2900").Select

Selection.AutoFill Destination:=Range("AS2900:AS4304")
Range("AS2900:AS4304").Select
Range("AT2900").Select

Selection.AutoFill Destination:=Range("AT2900:AT4304")
Range("AT2900:AT4304").Select
Range("AU2900").Select

Selection.AutoFill Destination:=Range("AU2900:AU4304")
Range("AU2900:AU4304").Select
Range("AV2900").Select

Selection.AutoFill Destination:=Range("AV2900:AV4304")
Range("AV2900:AV4304").Select
Range("AW2900").Select

Selection.AutoFill Destination:=Range("AW2900:AW4304")
Range("AW2900:AW4304").Select
Range("AX2900").Select

Selection.AutoFill Destination:=Range("AX2900:AX4304")
Range("AX2900:AX4304").Select

```
Range("Y2").Select
End Sub
Sub vonpiter11()

' vonpiter11 Macro
' Macro gravada em 16/06/2009 por jpietron
'
' Atalho do teclado: Ctrl+Shift+W

'Sheets("whitegraficos").Select

Range("L8").Select

Selection.AutoFill Destination:=Range("L8:L2800")
Range("L8:L2800").Select
Range("M8").Select

Selection.AutoFill Destination:=Range("M8:M2800")
Range("M8:M2800").Select
Range("N8").Select

Selection.AutoFill Destination:=Range("N8:N2800")
Range("N8:N2800").Select
Range("O8").Select

Selection.AutoFill Destination:=Range("O8:O2800")
Range("O8:O2800").Select
Range("P8").Select

Selection.AutoFill Destination:=Range("P8:P2800")
Range("P8:P2800").Select
Range("Q8").Select

Selection.AutoFill Destination:=Range("Q8:Q2800")
Range("Q8:Q2800").Select
Range("R8").Select

Selection.AutoFill Destination:=Range("R8:R2800")
Range("R8:R2800").Select
Range("S8").Select

Selection.AutoFill Destination:=Range("S8:S2800")
Range("S8:S2800").Select

Range("T8").Select

Selection.AutoFill Destination:=Range("T8:T2800")
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Selection.AutoFill Destination:=Range("U8:U2800")
Range("U8:U2800").Select
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Selection.AutoFill Destination:=Range("W8:W2800")
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End Sub
Sub vonpiter12()

" vonpiter12 Macro

' Macro gravada em 16/06/2009 por jpietron

" Atalho do teclado: Ctrl+Shift+R

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Range("EC8:EC2800").Select
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Range("EG8:EG2800").Select
Range("EH8").Select

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Range("EH8:EH2800").Select
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Range("EI8:EI2800").Select
Range("EJ8").Select

Selection.AutoFill Destination:=Range("EJ8:EJ2800")
Range("EJ8:EJ2800").Select
Range("EK8").Select

Selection.AutoFill Destination:=Range("EK8:EK2800")
Range("EK8:EK2800").Select
Range("EL8").Select

Selection.AutoFill Destination:=Range("EL8:EL2800")
Range("EL8:EL2800").Select
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Selection.AutoFill Destination:=Range("EM8:EM2800")
Range("EM8:EM2800").Select
Range("EN8").Select

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Range("EN8:EN2800").Select
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Range("EQ8").Select

Selection.AutoFill Destination:=Range("EQ8:EQ2800")
Range("EQ8:EQ2800").Select
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Selection.AutoFill Destination:=Range("ER8:ER2800")


```
Range("ER8:ER2800").Select
```

```
Range("ES8").Select
```

```
Selection.AutoFill Destination:=Range("ES8:ES2800")
```

```
Range("ES8:ES2800").Select
```

```
Range("ET8").Select
```

```
Selection.AutoFill Destination:=Range("ET8:ET2800")
```

```
Range("ET8:ET2800").Select
```

```
Range("K8").Select
```

```
End Sub
```

```
Sub vonpiter13()
```

```
,
```

```
vonpiter13 Macro
```

```
' Macro gravada em 16/06/2009 por jpietron
```

```
" Atalho do teclado: Ctrl+Shift+I
```

```
'End Sub
```

```
Sub vonpiter14()
```

```
" vonpiter14 Macro
```

```
' Macro gravada em 16/06/2009 por jpietron
```

```
,
```

```
' Atalho do teclado: Ctrl+Shift+S
```

```
End Sub
```

```
Sub vonpiter15()
```

```
" vonpiter15 Macro
```

```
' Macro gravada em 16/06/2009 por jpietron
```

```
" Atalho do teclado: Ctrl+Shift+F
```

```
End Sub
```

```
Sub vonpiter19()
```

```
" Macro1 Macro
```

```
' Macro gravada em 10/07/2009 por jpietron
```

```
' Atalho do teclado: Ctrl+Shift+A
```

```
Sheets("graficosim").Select
```

```
Range("AJ7").Select
```

```
Selection.AutoFill Destination:=Range("AJ7:AJ2557")
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Range("AJ7:AJ2557").Select
Range("AK7").Select

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```
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```

```
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```

```
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```

```
Selection.AutoFill Destination:=Range("DJ5838:DJ8658")
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```
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```

```
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```

```
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```

```
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```

```
Selection.AutoFill Destination:=Range("DO5838:DO8658")
Range("DO5838:DO8658").Select
Range("D2").Select
```

End Sub

Sub vonpiter18()

' Macro2 Macro

' Macro gravada em 22/06/2009 por jpietron

,

' Atalho do teclado: Ctrl+Shift+T

,

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Sheets("graficos").Select
Range("AJ7").Select
Selection.AutoFill Destination:=Range("AJ7:AJ2557")
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```
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```

```
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Range("CY7").Select

End Sub

Sub vonpiter20()
'
' vonpiter20 Macro
' Macro gravada em 22/06/2009 por jpietron
' Atalho do teclado: Ctrl+Shift+J

Sheets("bollingsim").Select

Range("BJ32").Select

Selection.AutoFill Destination:=Range("BJ32:BJ2550")
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Range("BV5838").Select

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End Sub

Sub vonpiter22()

" vonpiter22 Macro
' Macro gravada em 31/07/2009 por ..

" Atalho do teclado: Ctrl+Shift+A

Sheets("histmed").Select

Range("E7").Select

Selection.AutoFill Destination:=Range("E7:E2810")
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Range("F8").Select

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Range("FF7").Select

Selection.AutoFill Destination:=Range("FF7:FF2502")
Range("FF7:FF2502").Select
Range("FG7").Select

Selection.AutoFill Destination:=Range("FG7:FG2502")
Range("FG7:FG2502").Select
Range("FH7").Select

Selection.AutoFill Destination:=Range("FH7:FH2502")
Range("FH7:FH2502").Select
Range("FI7").Select

Selection.AutoFill Destination:=Range("FI7:FI2502")
Range("FI7:FI2502").Select
Range("FJ7").Select

Selection.AutoFill Destination:=Range("FJ7:FJ2502")
Range("FJ7:FJ2502").Select
Range("FK7").Select

Selection.AutoFill Destination:=Range("FK7:FK2502")
Range("FK7:FK2502").Select
Range("FL7").Select

Selection.AutoFill Destination:=Range("FL7:FL2502")
Range("FL7:FL2502").Select
Range("FM7").Select

Selection.AutoFill Destination:=Range("FM7:FM2502")
Range("FM7:FM2502").Select
Range("FN7").Select

Selection.AutoFill Destination:=Range("FN7:FN2502")
Range("FN7:FN2502").Select
Range("FO7").Select

Selection.AutoFill Destination:=Range("FO7:FO2502")
Range("FO7:FO2502").Select
Range("FP7").Select

Selection.AutoFill Destination:=Range("FP7:FP2502")
Range("FP7:FP2502").Select
Range("FQ7").Select

Selection.AutoFill Destination:=Range("FQ7:FQ2502")
Range("FQ7:FQ2502").Select
Range("FR7").Select

Selection.AutoFill Destination:=Range("FR7:FR2502")
Range("FR7:FR2502").Select
Range("FS7").Select

Selection.AutoFill Destination:=Range("FS7:FS2502")
Range("FS7:FS2502").Select
Range("FT7").Select

Selection.AutoFill Destination:=Range("FT7:FT2502")
Range("FT7:FT2502").Select
Range("FU7").Select

Selection.AutoFill Destination:=Range("FU7:FU2502")

Range("FU7:FU2502").Select
Range("FV7").Select

Selection.AutoFill Destination:=Range("FV7:FV2502")
Range("FV7:FV2502").Select
Range("FW7").Select

Selection.AutoFill Destination:=Range("FW7:FW2502")
Range("FW7:FW2502").Select
Range("FX7").Select

Selection.AutoFill Destination:=Range("FX7:FX2502")
Range("FX7:FX2502").Select
Range("FY7").Select

Selection.AutoFill Destination:=Range("FY7:FY2502")
Range("FY7:FY2502").Select
Range("FZ7").Select

Selection.AutoFill Destination:=Range("FZ7:FZ2502")
Range("FZ7:FZ2502").Select
Range("GA7").Select

Selection.AutoFill Destination:=Range("GA7:GA2502")
Range("GA7:GA2502").Select
Range("GB7").Select

Selection.AutoFill Destination:=Range("GB7:GB2502")
Range("GB7:GB2502").Select
Range("GC7").Select

Selection.AutoFill Destination:=Range("GC7:GC2502")
Range("GC7:GC2502").Select
Range("GD7").Select

Selection.AutoFill Destination:=Range("GD7:GD2502")
Range("GD7:GD2502").Select
Range("GE7").Select

Selection.AutoFill Destination:=Range("GE7:GE2502")
Range("GE7:GE2502").Select
Range("GF7").Select

Selection.AutoFill Destination:=Range("GF7:GF2502")
Range("GF7:GF2502").Select
Range("GG7").Select

Selection.AutoFill Destination:=Range("GG7:GG2502")
Range("GG7:GG2502").Select
Range("GH7").Select

Selection.AutoFill Destination:=Range("GH7:GH2502")
Range("GH7:GH2502").Select

Range("GI7").Select

Selection.AutoFill Destination:=Range("GI7:GI2502")

Range("GI7:GI2502").Select

Range("GJ7").Select

Selection.AutoFill Destination:=Range("GJ7:GJ2502")

Range("GJ7:GJ2502").Select

Range("GK7").Select

Selection.AutoFill Destination:=Range("GK7:GK2502")

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Range("GL7").Select

Selection.AutoFill Destination:=Range("GL7:GL2502")

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Range("GM7").Select

Selection.AutoFill Destination:=Range("GM7:GM2502")

Range("GM7:GM2502").Select

Range("GN7").Select

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Range("GN7:GN2502").Select

Range("GO7").Select

Selection.AutoFill Destination:=Range("GO7:GO2502")

Range("GO7:GO2502").Select

Range("GP7").Select

Selection.AutoFill Destination:=Range("GP7:GP2502")

Range("GP7:GP2502").Select

Range("GQ7").Select

Selection.AutoFill Destination:=Range("GQ7:GQ2502")

Range("GQ7:GQ2502").Select

Range("GR7").Select

Selection.AutoFill Destination:=Range("GR7:GR2502")

Range("GR7:GR2502").Select

Range("GS7").Select

Selection.AutoFill Destination:=Range("GS7:GS2502")

Range("GS7:GS2502").Select

Range("GT7").Select

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Range("GT7:GT2502").Select

Range("GU7").Select

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Range("GV7").Select

Selection.AutoFill Destination:=Range("GV7:GV2502")

Range("GV7:GV2502").Select

Range("GW7").Select

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Range("GW7:GW2502").Select

Range("GX7").Select

Selection.AutoFill Destination:=Range("GX7:GX2502")

Range("GX7:GX2502").Select

Range("GY7").Select

Selection.AutoFill Destination:=Range("GY7:GY2502")

Range("GY7:GY2502").Select

Range("GZ7").Select

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Range("GZ7:GZ2502").Select

Range("HA7").Select

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Range("HB7").Select

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Range("HB7:HB2502").Select

Range("HC7").Select

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Range("HD7").Select

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Range("HE7").Select

Selection.AutoFill Destination:=Range("HE7:HE2502")

Range("HE7:HE2502").Select

Range("HF7").Select

Selection.AutoFill Destination:=Range("HF7:HF2502")

Range("HF7:HF2502").Select

Range("HG7").Select

Selection.AutoFill Destination:=Range("HG7:HG2502")

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Range("HH7").Select

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Range("HH7:HH2502").Select

Range("HI7").Select

Selection.AutoFill Destination:=Range("HI7:HI2502")
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Range("HJ7").Select

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Range("HK7").Select

Selection.AutoFill Destination:=Range("HK7:HK2502")
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Range("HL7").Select

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Range("HL7:HL2502").Select
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Range("HM7:HM2502").Select
Range("HN7").Select

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Range("HN7:HN2502").Select
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Range("HP7").Select

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Range("HQ7").Select

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Range("HR7:HR2502").Select
Range("HS7").Select

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Range("HS7:HS2502").Select
Range("HT7").Select

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Range("HT7:HT2502").Select
Range("HU7").Select

Selection.AutoFill Destination:=Range("HU7:HU2502")
Range("HU7:HU2502").Select
Range("HV7").Select

Selection.AutoFill Destination:=Range("HV7:HV2502")
Range("HV7:HV2502").Select
Range("HW7").Select

Selection.AutoFill Destination:=Range("HW7:HW2502")
Range("HW7:HW2502").Select
Range("HX7").Select

Selection.AutoFill Destination:=Range("HX7:HX2502")
Range("HX7:HX2502").Select
Range("HY7").Select

Selection.AutoFill Destination:=Range("HY7:HY2502")
Range("HY7:HY2502").Select
Range("HZ7").Select

Selection.AutoFill Destination:=Range("HZ7:HZ2502")
Range("HZ7:HZ2502").Select
Range("IA7").Select

Selection.AutoFill Destination:=Range("IA7:IA2502")
Range("IA7:IA2502").Select
Range("IB7").Select

Selection.AutoFill Destination:=Range("IB7:IB2502")
Range("IB7:IB2502").Select
Range("IC7").Select

Selection.AutoFill Destination:=Range("IC7:IC2502")
Range("IC7:IC2502").Select
Range("ID7").Select

Selection.AutoFill Destination:=Range("ID7:ID2502")
Range("ID7:ID2502").Select
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Selection.AutoFill Destination:=Range("IE7:IE2502")
Range("IE7:IE2502").Select
Range("IF7").Select

Selection.AutoFill Destination:=Range("IF7:IF2502")
Range("IF7:IF2502").Select
Range("IG7").Select

Selection.AutoFill Destination:=Range("IG7:IG2502")
Range("IG7:IG2502").Select
Range("IH7").Select

Selection.AutoFill Destination:=Range("IH7:IH2502")
Range("IH7:IH2502").Select
Range("II7").Select

Selection.AutoFill Destination:=Range("I17:I2502")
Range("I17:I2502").Select
Range("I17").Select

Selection.AutoFill Destination:=Range("I17:I2502")
Range("I17:I2502").Select
Range("I17").Select

Selection.AutoFill Destination:=Range("I17:I2502")
Range("I17:I2502").Select

Range("AK5838").Select

Selection.AutoFill Destination:=Range("AK5838:AK8658")
Range("AK5838:AK8658").Select
Range("AL5838").Select

Selection.AutoFill Destination:=Range("AL5838:AL8658")
Range("AL5838:AL8658").Select
Range("AM5838").Select

Selection.AutoFill Destination:=Range("AM5838:AM8658")
Range("AM5838:AM8658").Select
Range("AN5838").Select

Selection.AutoFill Destination:=Range("AN5838:AN8658")
Range("AN5838:AN8658").Select
Range("AO5838").Select

Selection.AutoFill Destination:=Range("AO5838:AO8658")
Range("AO5838:AO8658").Select
Range("AP5838").Select

Selection.AutoFill Destination:=Range("AP5838:AP8658")
Range("AP5838:AP8658").Select

Range("AQ5838").Select

Selection.AutoFill Destination:=Range("AQ5838:AQ8658")
Range("AQ5838:AQ8658").Select
Range("AR5838").Select

Selection.AutoFill Destination:=Range("AR5838:AR8658")
Range("AR5838:AR8658").Select
Range("AS5838").Select

Selection.AutoFill Destination:=Range("AS5838:AS8658")
Range("AS5838:AS8658").Select
Range("AT5838").Select

Selection.AutoFill Destination:=Range("AT5838:AT8658")
Range("AT5838:AT8658").Select
Range("AU5838").Select

Selection.AutoFill Destination:=Range("AU5838:AU8658")
Range("AU5838:AU8658").Select
Range("AV5838").Select

Selection.AutoFill Destination:=Range("AV5838:AV8658")
Range("AV5838:AV8658").Select
Range("AW5838").Select

Selection.AutoFill Destination:=Range("AW5838:AW8658")
Range("AW5838:AW8658").Select
Range("AX5838").Select

Selection.AutoFill Destination:=Range("AX5838:AX8658")
Range("AX5838:AX8658").Select
Range("AY5838").Select

Selection.AutoFill Destination:=Range("AY5838:AY8658")
Range("AY5838:AY8658").Select
Range("AZ5838").Select

Selection.AutoFill Destination:=Range("AZ5838:AZ8658")
Range("AZ5838:AZ8658").Select

Range("BA5838").Select

Selection.AutoFill Destination:=Range("BA5838:BA8658")
Range("BA5838:BA8658").Select
Range("BB5838").Select

Selection.AutoFill Destination:=Range("BB5838:BB8658")
Range("BB5838:BB8658").Select
Range("BC5838").Select

Selection.AutoFill Destination:=Range("BC5838:BC8658")
Range("BC5838:BC8658").Select
Range("BD5838").Select

Selection.AutoFill Destination:=Range("BD5838:BD8658")
Range("BD5838:BD8658").Select
Range("BE5838").Select

Selection.AutoFill Destination:=Range("BE5838:BE8658")
Range("BE5838:BE8658").Select
Range("BF5838").Select

Selection.AutoFill Destination:=Range("BF5838:BF8658")
Range("BF5838:BF8658").Select
Range("BG5838").Select

Selection.AutoFill Destination:=Range("BG5838:BG8658")
Range("BG5838:BG8658").Select
Range("BH5838").Select

Selection.AutoFill Destination:=Range("BH5838:BH8658")
Range("BH5838:BH8658").Select
Range("BI5838").Select

Selection.AutoFill Destination:=Range("BI5838:BI8658")
Range("BI5838:BI8658").Select
Range("BJ5838").Select

Selection.AutoFill Destination:=Range("BJ5838:BJ8658")
Range("BJ5838:BJ8658").Select

Range("BK5838").Select

Selection.AutoFill Destination:=Range("BK5838:BK8658")
Range("BK5838:BK8658").Select
Range("BL5838").Select

Selection.AutoFill Destination:=Range("BL5838:BL8658")
Range("BL5838:BL8658").Select
Range("BM5838").Select

Selection.AutoFill Destination:=Range("BM5838:BM8658")
Range("BM5838:BM8658").Select
Range("BN5838").Select

Selection.AutoFill Destination:=Range("BN5838:BN8658")
Range("BN5838:BN8658").Select
Range("BO5838").Select

Selection.AutoFill Destination:=Range("BO5838:BO8658")
Range("BO5838:BO8658").Select
Range("BP5838").Select

Selection.AutoFill Destination:=Range("BP5838:BP8658")
Range("BP5838:BP8658").Select
Range("BQ5838").Select

Selection.AutoFill Destination:=Range("BQ5838:BQ8658")
Range("BQ5838:BQ8658").Select
Range("BR5838").Select

Selection.AutoFill Destination:=Range("BR5838:BR8658")
Range("BR5838:BR8658").Select
Range("BS5838").Select

Selection.AutoFill Destination:=Range("BS5838:BS8658")
Range("BS5838:BS8658").Select
Range("BT5838").Select

Selection.AutoFill Destination:=Range("BT5838:BT8658")

Range("BT5838:BT8658").Select

Range("BU5838").Select

Selection.AutoFill Destination:=Range("BU5838:BU8658")

Range("BU5838:BU8658").Select

Range("BV5838").Select

Selection.AutoFill Destination:=Range("BV5838:BV8658")

Range("BV5838:BV8658").Select

Range("BW5838").Select

Selection.AutoFill Destination:=Range("BW5838:BW8658")

Range("BW5838:BW8658").Select

Range("BX5838").Select

Selection.AutoFill Destination:=Range("BX5838:BX8658")

Range("BX5838:BX8658").Select

Range("BY5838").Select

Selection.AutoFill Destination:=Range("BY5838:BY8658")

Range("BY5838:BY8658").Select

Range("BZ5838").Select

Selection.AutoFill Destination:=Range("BZ5838:BZ8658")

Range("BZ5838:BZ8658").Select

Range("CA5838").Select

Selection.AutoFill Destination:=Range("CA5838:CA8658")

Range("CA5838:CA8658").Select

Range("CB5838").Select

Selection.AutoFill Destination:=Range("CB5838:CB8658")

Range("CB5838:CB8658").Select

Range("CC5838").Select

Selection.AutoFill Destination:=Range("CC5838:CC8658")

Range("CC5838:CC8658").Select

Range("CD5838").Select

Selection.AutoFill Destination:=Range("CD5838:CD8658")

Range("CD5838:CD8658").Select

Range("CE5838").Select

Selection.AutoFill Destination:=Range("CE5838:CE8658")

Range("CE5838:CE8658").Select

Range("CF5838").Select

Selection.AutoFill Destination:=Range("CF5838:CF8658")

Range("CF5838:CF8658").Select

Range("CG5838").Select

Selection.AutoFill Destination:=Range("CG5838:CG8658")
Range("CG5838:CG8658").Select
Range("CH5838").Select

Selection.AutoFill Destination:=Range("CH5838:CH8658")
Range("CH5838:CH8658").Select
Range("CI5838").Select

Selection.AutoFill Destination:=Range("CI5838:CI8658")
Range("CI5838:CI8658").Select
Range("CJ5838").Select

Selection.AutoFill Destination:=Range("CJ5838:CJ8658")
Range("CJ5838:CJ8658").Select
Range("CK5838").Select

Selection.AutoFill Destination:=Range("CK5838:CK8658")
Range("CK5838:CK8658").Select
Range("CL5838").Select

Selection.AutoFill Destination:=Range("CL5838:CL8658")
Range("CL5838:CL8658").Select
Range("CM5838").Select

Selection.AutoFill Destination:=Range("CM5838:CM8658")
Range("CM5838:CM8658").Select
Range("CN5838").Select

Selection.AutoFill Destination:=Range("CN5838:CN8658")
Range("CN5838:CN8658").Select

Range("CO5838").Select

Selection.AutoFill Destination:=Range("CO5838:CO8658")
Range("CO5838:CO8658").Select
Range("CP5838").Select

Selection.AutoFill Destination:=Range("CP5838:CP8658")
Range("CP5838:CP8658").Select
Range("CQ5838").Select

Selection.AutoFill Destination:=Range("CQ5838:CQ8658")
Range("CQ5838:CQ8658").Select
Range("CR5838").Select

Selection.AutoFill Destination:=Range("CR5838:CR8658")
Range("CR5838:CR8658").Select
Range("CS5838").Select

Selection.AutoFill Destination:=Range("CS5838:CS8658")
Range("CS5838:CS8658").Select
Range("CT5838").Select

```
Selection.AutoFill Destination:=Range("CT5838:CT8658")
Range("CT5838:CT8658").Select
Range("CU5838").Select
```

```
Selection.AutoFill Destination:=Range("CU5838:CU8658")
Range("CU5838:CU8658").Select
Range("CV5838").Select
```

```
Selection.AutoFill Destination:=Range("CV5838:CV8658")
Range("CV5838:CV8658").Select
Range("CW5838").Select
```

```
Selection.AutoFill Destination:=Range("CW5838:CW8658")
Range("CW5838:CW8658").Select
Range("CX5838").Select
```

```
Selection.AutoFill Destination:=Range("CX5838:CX8658")
Range("CX5838:CX8658").Select
```

```
Range("CY5838").Select
```

```
Selection.AutoFill Destination:=Range("CY5838:CY8658")
Range("CY5838:CY8658").Select
Range("CZ5838").Select
```

```
Selection.AutoFill Destination:=Range("CZ5838:CZ8658")
Range("CZ5838:CZ8658").Select
Range("DA5838").Select
```

```
Selection.AutoFill Destination:=Range("DA5838:DA8658")
Range("DA5838:DA8658").Select
```

```
Range("E6:A12810").Select
```

```
Range(Selection, Selection.End(xlDown)).Select
```

```
Selection.Copy
```

```
Range("E6").Select
```

```
Selection.PasteSpecial Paste:=xlPasteValues, Operation:=xlNone, SkipBlanks _
:=False, Transpose:=False
```

```
Range("E6:A12810").Select
```

```
Range(Selection, Selection.End(xlDown)).Select
```

```
Selection.Replace What:="#DIV/0!", Replacement:="", LookAt:=xlWhole, _
SearchOrder:=xlByRows, MatchCase:=False, SearchFormat:=False, _
ReplaceFormat:=False
Range("E6").Select
Range("A136").Select
```

```
Range(Selection, Selection.End(xlToLeft)).Select
Range(Selection, Selection.End(xlToLeft)).Select
Range(Selection, Selection.End(xlToLeft)).Select
Range("C6:A136").Select
Range("A136").Activate
Selection.ClearContents
```

```
Range("A16").Select
```

```
End Sub
```

```
Sub vonpiter23()
```

```
" vonpiter23 Macro
```

```
' Macro gravada em 01/09/2009 por ..
```

```
' Atalho do teclado: Ctrl+Shift+Q
```

```
'Sheets("histmedsim").Select
```

```
Range("E7").Select
```

```
Selection.AutoFill Destination:=Range("E7:E2810")
```

```
Range("E7:E2810").Select
```

```
Range("F8").Select
```

```
Selection.AutoFill Destination:=Range("F8:F2810")
```

```
Range("F8:F2810").Select
```

```
Range("G9").Select
```

```
Selection.AutoFill Destination:=Range("G9:G2810")
```

```
Range("G9:G2810").Select
```

```
Range("H10").Select
```

```
Selection.AutoFill Destination:=Range("H10:H2810")
```

```
Range("H10:H2810").Select
```

```
Range("I11").Select
```

```
Selection.AutoFill Destination:=Range("I11:I2810")
```

```
Range("I11:I2810").Select
```

```
Range("J12").Select
```

```
Selection.AutoFill Destination:=Range("J12:J2810")
```

```
Range("J12:J2810").Select
```

```
Range("K13").Select
```

```
Selection.AutoFill Destination:=Range("K13:K2810")
```

```
Range("K13:K2810").Select
```

```
Range("L14").Select
```

Selection.AutoFill Destination:=Range("L14:L2810")
Range("L14:L2810").Select
Range("M15").Select

Selection.AutoFill Destination:=Range("M15:M2810")
Range("M15:M2810").Select
Range("N16").Select

Selection.AutoFill Destination:=Range("N16:N2810")
Range("N16:N2810").Select
Range("O17").Select

Selection.AutoFill Destination:=Range("O17:O2810")
Range("O17:O2810").Select
Range("P18").Select

Selection.AutoFill Destination:=Range("P18:P2810")
Range("P18:P2810").Select
Range("Q19").Select

Selection.AutoFill Destination:=Range("Q19:Q2810")
Range("Q19:Q2810").Select
Range("R20").Select

Selection.AutoFill Destination:=Range("R20:R2810")
Range("R20:R2810").Select
Range("S21").Select

Selection.AutoFill Destination:=Range("S21:S2810")
Range("S21:S2810").Select

Range("T22").Select

Selection.AutoFill Destination:=Range("T22:T2810")
Range("T22:T2810").Select
Range("U23").Select

Selection.AutoFill Destination:=Range("U23:U2810")
Range("U23:U2810").Select
Range("V24").Select

Selection.AutoFill Destination:=Range("V24:V2810")
Range("V24:V2810").Select
Range("W25").Select

Selection.AutoFill Destination:=Range("W25:W2810")
Range("W25:W2810").Select
Range("X26").Select

Selection.AutoFill Destination:=Range("X26:X2810")
Range("X26:X2810").Select
Range("Y27").Select

Selection.AutoFill Destination:=Range("Y27:Y2810")
Range("Y27:Y2810").Select
Range("Z28").Select

Selection.AutoFill Destination:=Range("Z28:Z2810")
Range("Z28:Z2810").Select
Range("AA29").Select

Selection.AutoFill Destination:=Range("AA29:AA2810")
Range("AA29:AA2810").Select
Range("AB30").Select

Selection.AutoFill Destination:=Range("AB30:AB2810")
Range("AB30:AB2810").Select
Range("AC31").Select

Selection.AutoFill Destination:=Range("AC31:AC2810")
Range("AC31:AC2810").Select

Range("AD32").Select

Selection.AutoFill Destination:=Range("AD32:AD2810")
Range("AD32:AD2810").Select
Range("AE33").Select

Selection.AutoFill Destination:=Range("AE33:AE2810")
Range("AE33:AE2810").Select
Range("AF34").Select

Selection.AutoFill Destination:=Range("AF34:AF2810")
Range("AF34:AF2810").Select
Range("AG35").Select

Selection.AutoFill Destination:=Range("AG35:AG2810")
Range("AG35:AG2810").Select
Range("AH36").Select

Selection.AutoFill Destination:=Range("AH36:AH2810")
Range("AH36:AH2810").Select
Range("AI37").Select

Selection.AutoFill Destination:=Range("AI37:AI2810")
Range("AI37:AI2810").Select

Range("Aj7").Select

Selection.AutoFill Destination:=Range("Aj7:Aj2502")
Range("Aj7:Aj2502").Select
Range("Ak7").Select

Selection.AutoFill Destination:=Range("AK7:AK2502")

Range("AK7:AK2502").Select
Range("AL7").Select

Selection.AutoFill Destination:=Range("AL7:AL2502")
Range("AL7:AL2502").Select
Range("AM7").Select

Selection.AutoFill Destination:=Range("AM7:AM2502")
Range("AM7:AM2502").Select
Range("AN7").Select

Selection.AutoFill Destination:=Range("AN7:AN2502")
Range("AN7:AN2502").Select
Range("AO7").Select

Selection.AutoFill Destination:=Range("AO7:AO2502")
Range("AO7:AO2502").Select
Range("AP7").Select

Selection.AutoFill Destination:=Range("AP7:AP2502")
Range("AP7:AP2502").Select
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Range("AT5838").Select

Selection.AutoFill Destination:=Range("AT5838:AT8658")
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Range("AU5838").Select

Selection.AutoFill Destination:=Range("AU5838:AU8658")
Range("AU5838:AU8658").Select
Range("AV5838").Select

Selection.AutoFill Destination:=Range("AV5838:AV8658")
Range("AV5838:AV8658").Select
Range("AW5838").Select
Selection.AutoFill Destination:=Range("AW5838:AW8658")
Range("AW5838:AW8658").Select
Range("AX5838").Select

Selection.AutoFill Destination:=Range("AX5838:AX8658")
Range("AX5838:AX8658").Select
Range("AY5838").Select

Selection.AutoFill Destination:=Range("AY5838:AY8658")
Range("AY5838:AY8658").Select
Range("AZ5838").Select

Selection.AutoFill Destination:=Range("AZ5838:AZ8658")
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Selection.AutoFill Destination:=Range("BA5838:BA8658")
Range("BA5838:BA8658").Select
Range("BB5838").Select

Selection.AutoFill Destination:=Range("BB5838:BB8658")
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Range("BC5838").Select

Selection.AutoFill Destination:=Range("BC5838:BC8658")
Range("BC5838:BC8658").Select
Range("BD5838").Select

Selection.AutoFill Destination:=Range("BD5838:BD8658")
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Range("BE5838").Select

Selection.AutoFill Destination:=Range("BE5838:BE8658")
Range("BE5838:BE8658").Select
Range("BF5838").Select

Selection.AutoFill Destination:=Range("BF5838:BF8658")
Range("BF5838:BF8658").Select
Range("BG5838").Select
Selection.AutoFill Destination:=Range("BG5838:BG8658")
Range("BG5838:BG8658").Select
Range("BH5838").Select

Selection.AutoFill Destination:=Range("BH5838:BH8658")
Range("BH5838:BH8658").Select
Range("BI5838").Select

Selection.AutoFill Destination:=Range("BI5838:BI8658")
Range("BI5838:BI8658").Select
Range("BJ5838").Select

Selection.AutoFill Destination:=Range("BJ5838:BJ8658")
Range("BJ5838:BJ8658").Select
Range("BK5838").Select

Selection.AutoFill Destination:=Range("BK5838:BK8658")
Range("BK5838:BK8658").Select
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Selection.AutoFill Destination:=Range("BM5838:BM8658")

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Selection.AutoFill Destination:=Range("BN5838:BN8658")
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Selection.AutoFill Destination:=Range("BO5838:BO8658")
Range("BO5838:BO8658").Select
Range("BP5838").Select

Selection.AutoFill Destination:=Range("BP5838:BP8658")
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Selection.AutoFill Destination:=Range("BU5838:BU8658")
Range("BU5838:BU8658").Select
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Selection.AutoFill Destination:=Range("BV5838:BV8658")
Range("BV5838:BV8658").Select
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Selection.AutoFill Destination:=Range("BW5838:BW8658")
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Selection.AutoFill Destination:=Range("BX5838:BX8658")
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Selection.AutoFill Destination:=Range("CB5838:CB8658")
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Selection.AutoFill Destination:=Range("CH5838:CH8658")
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Selection.AutoFill Destination:=Range("CI5838:CI8658")
Range("CI5838:CI8658").Select
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Range("CJ5838:CJ8658").Select
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Selection.AutoFill Destination:=Range("CK5838:CK8658")
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Range("CN5838:CN8658").Select
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Selection.AutoFill Destination:=Range("CU5838:CU8658")
Range("CU5838:CU8658").Select
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Selection.AutoFill Destination:=Range("CW5838:CW8658")
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Range("CX5838").Select

Selection.AutoFill Destination:=Range("CX5838:CX8658")

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Selection.AutoFill Destination:=Range("CY5838:CX8658")
Range("CY5838:CX8658").Select
Range("CZ5838").Select

Selection.AutoFill Destination:=Range("CZ5838:CZ8658")
Range("CZ5838:CZ8658").Select
Range("DA5838").Select

Selection.AutoFill Destination:=Range("DA5838:DA8658")
Range("DA5838:DA8658").Select

Range("E6:A12810").Select

Range(Selection, Selection.End(xlDown)).Select

Selection.Copy

Range("E6").Select

Selection.PasteSpecial Paste:=xlPasteValues, Operation:=xlNone, SkipBlanks _
:=False, Transpose:=False

Range("E6:A12810").Select

Range(Selection, Selection.End(xlDown)).Select

Selection.Replace What:="#DIV/0!", Replacement:="", LookAt:=xlWhole, _
SearchOrder:=xlByRows, MatchCase:=False, SearchFormat:=False, _
ReplaceFormat:=False

Range("E6").Select

Range("A136").Select

Range(Selection, Selection.End(xlToLeft)).Select

Range(Selection, Selection.End(xlToLeft)).Select

Range(Selection, Selection.End(xlToLeft)).Select

Range("C6:A136").Select

Range("A136").Activate

Selection.ClearContents

Range("A16").Select

Range("CY7").Select

Sheets("svalidgraficos").Select

Range("L8").Select

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Range("L8:L2800").Select

Range("M8").Select

Selection.AutoFill Destination:=Range("M8:M2800")

Range("M8:M2800").Select

Range("N8").Select

Selection.AutoFill Destination:=Range("N8:N2800")

Range("N8:N2800").Select

Range("O8").Select

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Range("O8:O2800").Select

Range("P8").Select

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Range("Q8").Select

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Range("R8").Select

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Range("S8").Select

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Range("Z8").Select

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Selection.AutoFill Destination:=Range("AC8:AC2800")

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Selection.AutoFill Destination:=Range("AE8:AE2800")

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Selection.AutoFill Destination:=Range("AF8:AF2800")

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Range("AH8").Select

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Range("AI8").Select

Selection.AutoFill Destination:=Range("AI8:AI2800")

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Selection.AutoFill Destination:=Range("AJ8:AJ2800")

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Selection.AutoFill Destination:=Range("AK8:AK2800")

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Range("AL8").Select

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Range("AW8").Select

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Selection.AutoFill Destination:=Range("BB8:BB2800")
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Selection.AutoFill Destination:=Range("BE8:BE2800")
Range("BE8:BE2800").Select
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Selection.AutoFill Destination:=Range("BF8:BF2800")
Range("BF8:BF2800").Select
Range("BG8").Select

Selection.AutoFill Destination:=Range("BG8:BG2800")
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Selection.AutoFill Destination:=Range("BH8:BH2800")
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Range("BI8").Select

Selection.AutoFill Destination:=Range("BI8:BI2800")
Range("BI8:BI2800").Select
Range("BJ8").Select

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Range("BJ8:BJ2800").Select
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Range("BP8").Select

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Range("BP8:BP2800").Select

Range("BQ8").Select

Selection.AutoFill Destination:=Range("BQ8:BQ2800")

Range("BQ8:BQ2800").Select

Range("BR8").Select

Selection.AutoFill Destination:=Range("BR8:BR2800")

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Range("BS8").Select

Selection.AutoFill Destination:=Range("BS8:BS2800")

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Range("BT8").Select

Selection.AutoFill Destination:=Range("BT8:BT2800")

Range("BT8:BT2800").Select

Range("BU8").Select

Selection.AutoFill Destination:=Range("BU8:BU2800")

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Range("BV8").Select

Selection.AutoFill Destination:=Range("BV8:BV2800")

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Range("BW8").Select

Selection.AutoFill Destination:=Range("BW8:BW2800")

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Range("BX8").Select

Selection.AutoFill Destination:=Range("BX8:BX2800")

Range("BX8:BX2800").Select

Range("BY8").Select

Selection.AutoFill Destination:=Range("BY8:BY2800")

Range("BY8:BY2800").Select

Range("BZ8").Select

Selection.AutoFill Destination:=Range("BZ8:BZ2800")

Range("BZ8:BZ2800").Select
Range("CA8").Select

Selection.AutoFill Destination:=Range("CA8:CA2800")
Range("CA8:CA2800").Select
Range("CB8").Select

Selection.AutoFill Destination:=Range("CB8:CB2800")
Range("CB8:CB2800").Select
Range("CC8").Select

Selection.AutoFill Destination:=Range("CC8:CC2800")
Range("CC8:CC2800").Select
Range("CD8").Select

Selection.AutoFill Destination:=Range("CD8:CD2800")
Range("CD8:CD2800").Select
Range("CE8").Select

Selection.AutoFill Destination:=Range("CE8:CE2800")
Range("CE8:CE2800").Select
Range("CF8").Select

Selection.AutoFill Destination:=Range("CF8:CF2800")
Range("CF8:CF2800").Select
Range("CG8").Select

Selection.AutoFill Destination:=Range("CG8:CG2800")
Range("CG8:CG2800").Select
Range("CH8").Select

Selection.AutoFill Destination:=Range("CH8:CH2800")
Range("CH8:CH2800").Select
Range("CI8").Select

Selection.AutoFill Destination:=Range("CI8:CI2800")
Range("CI8:CI2800").Select
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Selection.AutoFill Destination:=Range("CJ8:CJ2800")
Range("CJ8:CJ2800").Select
Range("CK8").Select

Selection.AutoFill Destination:=Range("CK8:CK2800")
Range("CK8:CK2800").Select
Range("CL8").Select

Selection.AutoFill Destination:=Range("CL8:CL2800")
Range("CL8:CL2800").Select
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Selection.AutoFill Destination:=Range("CM8:CM2800")
Range("CM8:CM2800").Select

Range("CN8").Select

Selection.AutoFill Destination:=Range("CN8:CN2800")

Range("CN8:CN2800").Select

Range("CO8").Select

Selection.AutoFill Destination:=Range("CO8:CO2800")

Range("CO8:CO2800").Select

Range("CP8").Select

Selection.AutoFill Destination:=Range("CP8:CP2800")

Range("CP8:CP2800").Select

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Selection.AutoFill Destination:=Range("CQ8:CQ2800")

Range("CQ8:CQ2800").Select

Range("CR8").Select

Selection.AutoFill Destination:=Range("CR8:CR2800")

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Range("CS8").Select

Selection.AutoFill Destination:=Range("CS8:CS2800")

Range("CS8:CS2800").Select

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Selection.AutoFill Destination:=Range("CT8:CT2800")

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Range("CU8").Select

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Range("CV8").Select

Selection.AutoFill Destination:=Range("CV8:CV2800")

Range("CV8:CV2800").Select

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Selection.AutoFill Destination:=Range("CW8:CW2800")

Range("CW8:CW2800").Select

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Selection.AutoFill Destination:=Range("CX8:CX2800")

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Range("CY8").Select

Selection.AutoFill Destination:=Range("CY8:CY2800")

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Range("CZ8").Select

Selection.AutoFill Destination:=Range("CZ8:CZ2800")

Range("CZ8:CZ2800").Select

Range("DA8").Select

```
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Range("DA8:DA2800").Select
Range("DB8").Select
```

```
Selection.AutoFill Destination:=Range("DB8:DB2800")
Range("DB8:DB2800").Select
Range("K8").Select
```

End Sub

Sub vonpiter24()

" vonpiter24 Macro

' Macro gravada em 01/09/2009 por ..

" Atalho do teclado: Ctrl+Shift+P

'Sheets("svalidgraficosim").Select

```
Range("L8").Select
```

```
Selection.AutoFill Destination:=Range("L8:L2800")
Range("L8:L2800").Select
Range("M8").Select
```

```
Selection.AutoFill Destination:=Range("M8:M2800")
Range("M8:M2800").Select
Range("N8").Select
```

```
Selection.AutoFill Destination:=Range("N8:N2800")
Range("N8:N2800").Select
Range("O8").Select
```

```
Selection.AutoFill Destination:=Range("O8:O2800")
Range("O8:O2800").Select
Range("P8").Select
```

```
Selection.AutoFill Destination:=Range("P8:P2800")
Range("P8:P2800").Select
Range("Q8").Select
```

```
Selection.AutoFill Destination:=Range("Q8:Q2800")
Range("Q8:Q2800").Select
Range("R8").Select
```

```
Selection.AutoFill Destination:=Range("R8:R2800")
Range("R8:R2800").Select
Range("S8").Select
```

```
Selection.AutoFill Destination:=Range("S8:S2800")
Range("S8:S2800").Select
```

Range("T8").Select

Selection.AutoFill Destination:=Range("T8:T2800")

Range("T8:T2800").Select

Range("U8").Select

Selection.AutoFill Destination:=Range("U8:U2800")

Range("U8:U2800").Select

Range("V8").Select

Selection.AutoFill Destination:=Range("V8:V2800")

Range("V8:V2800").Select

Range("W8").Select

Selection.AutoFill Destination:=Range("W8:W2800")

Range("W8:W2800").Select

Range("X8").Select

Selection.AutoFill Destination:=Range("X8:X2800")

Range("X8:X2800").Select

Range("Y8").Select

Selection.AutoFill Destination:=Range("Y8:Y2800")

Range("Y8:Y2800").Select

Range("Z8").Select

Selection.AutoFill Destination:=Range("Z8:Z2800")

Range("Z8:Z2800").Select

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Selection.AutoFill Destination:=Range("AA8:AA2800")

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Selection.AutoFill Destination:=Range("AB8:AB2800")

Range("AB8:AB2800").Select

Range("AC8").Select

Selection.AutoFill Destination:=Range("AC8:AC2800")

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Range("AD8").Select

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Range("AF8").Select

Selection.AutoFill Destination:=Range("AF8:AF2800")

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Range("AI8").Select

Selection.AutoFill Destination:=Range("AI8:AI2800")
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Range("AJ8").Select

Selection.AutoFill Destination:=Range("AJ8:AJ2800")
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Selection.AutoFill Destination:=Range("AK8:AK2800")
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Range("AL8").Select

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Selection.AutoFill Destination:=Range("AN8:AN2800")
Range("AN8:AN2800").Select
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Selection.AutoFill Destination:=Range("AO8:AO2800")
Range("AO8:AO2800").Select
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Selection.AutoFill Destination:=Range("AP8:AP2800")
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Range("AQ8").Select

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Range("AT8").Select

Selection.AutoFill Destination:=Range("AT8:AT2800")
Range("AT8:AT2800").Select
Range("AU8").Select

Selection.AutoFill Destination:=Range("AU8:AU2800")
Range("AU8:AU2800").Select
Range("AV8").Select

Selection.AutoFill Destination:=Range("AV8:AV2800")
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Range("AW8").Select

Selection.AutoFill Destination:=Range("AW8:AW2800")
Range("AW8:AW2800").Select
Range("AX8").Select

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Range("AX8:AX2800").Select
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Range("BA8:BA2800").Select
Range("BB8").Select

Selection.AutoFill Destination:=Range("BB8:BB2800")
Range("BB8:BB2800").Select
Range("BC8").Select

Selection.AutoFill Destination:=Range("BC8:BC2800")
Range("BC8:BC2800").Select
Range("BD8").Select

Selection.AutoFill Destination:=Range("BD8:BD2800")
Range("BD8:BD2800").Select
Range("BE8").Select

Selection.AutoFill Destination:=Range("BE8:BE2800")
Range("BE8:BE2800").Select
Range("BF8").Select

Selection.AutoFill Destination:=Range("BF8:BF2800")
Range("BF8:BF2800").Select
Range("BG8").Select

Selection.AutoFill Destination:=Range("BG8:BG2800")

Range("BG8:BG2800").Select
Range("BH8").Select

Selection.AutoFill Destination:=Range("BH8:BH2800")
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Range("BV8:BV2800").Select
Range("BW8").Select

Selection.AutoFill Destination:=Range("BW8:BW2800")
Range("BW8:BW2800").Select
Range("BX8").Select

Selection.AutoFill Destination:=Range("BX8:BX2800")
Range("BX8:BX2800").Select
Range("BY8").Select

Selection.AutoFill Destination:=Range("BY8:BY2800")
Range("BY8:BY2800").Select
Range("BZ8").Select

Selection.AutoFill Destination:=Range("BZ8:BZ2800")
Range("BZ8:BZ2800").Select
Range("CA8").Select

Selection.AutoFill Destination:=Range("CA8:CA2800")
Range("CA8:CA2800").Select
Range("CB8").Select

Selection.AutoFill Destination:=Range("CB8:CB2800")
Range("CB8:CB2800").Select
Range("CC8").Select

Selection.AutoFill Destination:=Range("CC8:CC2800")
Range("CC8:CC2800").Select
Range("CD8").Select

Selection.AutoFill Destination:=Range("CD8:CD2800")
Range("CD8:CD2800").Select
Range("CE8").Select

Selection.AutoFill Destination:=Range("CE8:CE2800")
Range("CE8:CE2800").Select
Range("CF8").Select

Selection.AutoFill Destination:=Range("CF8:CF2800")
Range("CF8:CF2800").Select
Range("CG8").Select

Selection.AutoFill Destination:=Range("CG8:CG2800")
Range("CG8:CG2800").Select
Range("CH8").Select

Selection.AutoFill Destination:=Range("CH8:CH2800")
Range("CH8:CH2800").Select
Range("CI8").Select

Selection.AutoFill Destination:=Range("CI8:CI2800")
Range("CI8:CI2800").Select
Range("CJ8").Select

Selection.AutoFill Destination:=Range("CJ8:CJ2800")
Range("CJ8:CJ2800").Select
Range("CK8").Select

Selection.AutoFill Destination:=Range("CK8:CK2800")
Range("CK8:CK2800").Select
Range("CL8").Select

Selection.AutoFill Destination:=Range("CL8:CL2800")
Range("CL8:CL2800").Select
Range("CM8").Select

Selection.AutoFill Destination:=Range("CM8:CM2800")
Range("CM8:CM2800").Select
Range("CN8").Select

Selection.AutoFill Destination:=Range("CN8:CN2800")
Range("CN8:CN2800").Select
Range("CO8").Select

Selection.AutoFill Destination:=Range("CO8:CO2800")
Range("CO8:CO2800").Select
Range("CP8").Select

Selection.AutoFill Destination:=Range("CP8:CP2800")
Range("CP8:CP2800").Select
Range("CQ8").Select

Selection.AutoFill Destination:=Range("CQ8:CQ2800")
Range("CQ8:CQ2800").Select
Range("CR8").Select

Selection.AutoFill Destination:=Range("CR8:CR2800")
Range("CR8:CR2800").Select
Range("CS8").Select

Selection.AutoFill Destination:=Range("CS8:CS2800")

Range("CS8:CS2800").Select
Range("CT8").Select

Selection.AutoFill Destination:=Range("CT8:CT2800")
Range("CT8:CT2800").Select
Range("CU8").Select

Selection.AutoFill Destination:=Range("CU8:CU2800")
Range("CU8:CU2800").Select
Range("CV8").Select

Selection.AutoFill Destination:=Range("CV8:CV2800")
Range("CV8:CV2800").Select
Range("CW8").Select

Selection.AutoFill Destination:=Range("CW8:CW2800")
Range("CW8:CW2800").Select
Range("CX8").Select

Selection.AutoFill Destination:=Range("CX8:CX2800")
Range("CX8:CX2800").Select
Range("CY8").Select

Selection.AutoFill Destination:=Range("CY8:CY2800")
Range("CY8:CY2800").Select
Range("CZ8").Select

Selection.AutoFill Destination:=Range("CZ8:CZ2800")
Range("CZ8:CZ2800").Select
Range("DA8").Select

Selection.AutoFill Destination:=Range("DA8:DA2800")
Range("DA8:DA2800").Select
Range("DB8").Select

Selection.AutoFill Destination:=Range("DB8:DB2800")
Range("DB8:DB2800").Select
Range("DC8").Select

Selection.AutoFill Destination:=Range("DC8:DC2800")
Range("DC8:DC2800").Select
Range("DD8").Select

Selection.AutoFill Destination:=Range("DD8:DD2800")
Range("DD8:DD2800").Select
Range("DE8").Select

Selection.AutoFill Destination:=Range("DE8:DE2800")
Range("DE8:DE2800").Select
Range("DF8").Select

Selection.AutoFill Destination:=Range("DF8:DF2800")
Range("DF8:DF2800").Select
Range("DG8").Select

Selection.AutoFill Destination:=Range("DG8:DG2800")
Range("DG8:DG2800").Select
Range("DH8").Select

Selection.AutoFill Destination:=Range("DH8:DH2800")
Range("DH8:DH2800").Select
Range("DI8").Select
Selection.AutoFill Destination:=Range("DI8:DI2800")
Range("DI8:DI2800").Select
Range("DJ8").Select

Selection.AutoFill Destination:=Range("DJ8:DJ2800")
Range("DJ8:DJ2800").Select
Range("DK8").Select

Selection.AutoFill Destination:=Range("DK8:DK2800")
Range("DK8:DK2800").Select
Range("DL8").Select

Selection.AutoFill Destination:=Range("DL8:DL2800")
Range("DL8:DL2800").Select
Range("DM8").Select

Selection.AutoFill Destination:=Range("DM8:DM2800")
Range("DM8:DM2800").Select
Range("DN8").Select

Selection.AutoFill Destination:=Range("DN8:DN2800")
Range("DN8:DN2800").Select
Range("DO8").Select

Selection.AutoFill Destination:=Range("DO8:DO2800")
Range("DO8:DO2800").Select
Range("DP8").Select

Selection.AutoFill Destination:=Range("DP8:DP2800")
Range("DP8:DP2800").Select
Range("DQ8").Select

Selection.AutoFill Destination:=Range("DQ8:DQ2800")
Range("DQ8:DQ2800").Select
Range("DR8").Select

Selection.AutoFill Destination:=Range("DR8:DR2800")
Range("DR8:DR2800").Select
Range("DS8").Select

Selection.AutoFill Destination:=Range("DS8:DS2800")
Range("DS8:DS2800").Select
Range("DT8").Select

Selection.AutoFill Destination:=Range("DT8:DT2800")

```
Range("DT8:DT2800").Select  
Range("DU8").Select
```

```
Selection.AutoFill Destination:=Range("DU8:DU2800")  
Range("DU8:DU2800").Select  
Range("DV8").Select
```

```
Selection.AutoFill Destination:=Range("DV8:DV2800")  
Range("DV8:DV2800").Select  
Range("K8").Select
```

```
End Sub
```

```
Sub vonpiter25()
```

```
" vonpiter25 Macro
```

```
' Macro gravada em 01/09/2009 por ..
```

```
" Atalho do teclado: Ctrl+Shift+L
```

```
'Sheets("svalidhistmed").Select
```

```
Range("L8").Select
```

```
Selection.AutoFill Destination:=Range("L8:L2800")  
Range("L8:L2800").Select  
Range("M8").Select
```

```
Selection.AutoFill Destination:=Range("M8:M2800")  
Range("M8:M2800").Select  
Range("N8").Select
```

```
Selection.AutoFill Destination:=Range("N8:N2800")  
Range("N8:N2800").Select  
Range("O8").Select
```

```
Selection.AutoFill Destination:=Range("O8:O2800")  
Range("O8:O2800").Select  
Range("P8").Select
```

```
Selection.AutoFill Destination:=Range("P8:P2800")  
Range("P8:P2800").Select  
Range("Q8").Select
```

```
Selection.AutoFill Destination:=Range("Q8:Q2800")  
Range("Q8:Q2800").Select  
Range("R8").Select
```

```
Selection.AutoFill Destination:=Range("R8:R2800")  
Range("R8:R2800").Select  
Range("S8").Select
```

```
Selection.AutoFill Destination:=Range("S8:S2800")
```

Range("S8:S2800").Select
Range("T8").Select

Selection.AutoFill Destination:=Range("T8:T2800")
Range("T8:T2800").Select
Range("U8").Select

Selection.AutoFill Destination:=Range("U8:U2800")
Range("U8:U2800").Select
Range("V8").Select

Selection.AutoFill Destination:=Range("V8:V2800")
Range("V8:V2800").Select
Range("W8").Select
Selection.AutoFill Destination:=Range("W8:W2800")
Range("W8:W2800").Select
Range("X8").Select

Selection.AutoFill Destination:=Range("X8:X2800")
Range("X8:X2800").Select
Range("Y8").Select

Selection.AutoFill Destination:=Range("Y8:Y2800")
Range("Y8:Y2800").Select
Range("Z8").Select

Selection.AutoFill Destination:=Range("Z8:Z2800")
Range("Z8:Z2800").Select
Range("AA8").Select

Selection.AutoFill Destination:=Range("AA8:AA2800")
Range("AA8:AA2800").Select
Range("AB8").Select

Selection.AutoFill Destination:=Range("AB8:AB2800")
Range("AB8:AB2800").Select
Range("AC8").Select

Selection.AutoFill Destination:=Range("AC8:AC2800")
Range("AC8:AC2800").Select
Range("AD8").Select

Selection.AutoFill Destination:=Range("AD8:AD2800")
Range("AD8:AD2800").Select
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Selection.AutoFill Destination:=Range("AE8:AE2800")
Range("AE8:AE2800").Select
Range("AF8").Select

Selection.AutoFill Destination:=Range("AF8:AF2800")
Range("AF8:AF2800").Select
Range("AG8").Select

Selection.AutoFill Destination:=Range("AG8:AG2800")
Range("AG8:AG2800").Select
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Selection.AutoFill Destination:=Range("AH8:AH2800")
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Range("AI8").Select

Selection.AutoFill Destination:=Range("AI8:AI2800")
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Range("AJ8").Select

Selection.AutoFill Destination:=Range("AJ8:AJ2800")
Range("AJ8:AJ2800").Select
Range("AK8").Select

Selection.AutoFill Destination:=Range("AK8:AK2800")
Range("AK8:AK2800").Select
Range("AL8").Select

Selection.AutoFill Destination:=Range("AL8:AL2800")
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Selection.AutoFill Destination:=Range("AM8:AM2800")
Range("AM8:AM2800").Select
Range("AN8").Select

Selection.AutoFill Destination:=Range("AN8:AN2800")
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Range("AO8").Select

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Range("AQ8").Select

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Range("AU8").Select

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Range("AV8").Select

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Range("AW8").Select

Selection.AutoFill Destination:=Range("AW8:AW2800")

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Range("AX8").Select

Selection.AutoFill Destination:=Range("AX8:AX2800")

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Range("AY8").Select

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Range("AZ8").Select

Selection.AutoFill Destination:=Range("AZ8:AZ2800")

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Range("BA8").Select

Selection.AutoFill Destination:=Range("BA8:BA2800")

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Range("BB8").Select

Selection.AutoFill Destination:=Range("BB8:BB2800")

Range("BB8:BB2800").Select

Range("BC8").Select

Selection.AutoFill Destination:=Range("BC8:BC2800")

Range("BC8:BC2800").Select

Range("BD8").Select

Selection.AutoFill Destination:=Range("BD8:BD2800")

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Range("BE8").Select

Selection.AutoFill Destination:=Range("BE8:BE2800")

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Range("BF8").Select

Selection.AutoFill Destination:=Range("BF8:BF2800")

Range("BF8:BF2800").Select

Range("BG8").Select

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Range("BH8").Select

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Range("BJ8").Select

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Range("BP8").Select

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Selection.AutoFill Destination:=Range("BS8:BS2800")
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Range("BT8").Select

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Range("BU8").Select
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Range("BV8").Select

Selection.AutoFill Destination:=Range("BV8:BV2800")

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Range("BW8").Select

Selection.AutoFill Destination:=Range("BW8:BW2800")

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Range("BX8").Select

Selection.AutoFill Destination:=Range("BX8:BX2800")

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Range("BY8").Select

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Selection.AutoFill Destination:=Range("BZ8:BZ2800")

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Selection.AutoFill Destination:=Range("CC8:CC2800")

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Range("CH8").Select

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Selection.AutoFill Destination:=Range("CN8:CN2800")
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Selection.AutoFill Destination:=Range("CO8:CO2800")
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Selection.AutoFill Destination:=Range("CP8:CP2800")
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Selection.AutoFill Destination:=Range("CQ8:CQ2800")
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Range("DO8").Select

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Range("EB8").Select

Selection.AutoFill Destination:=Range("EB8:EB2800")

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Selection.AutoFill Destination:=Range("EC8:EC2800")

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Range("ED8").Select

Selection.AutoFill Destination:=Range("ED8:ED2800")

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Range("EJ8").Select

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Range("EN8").Select

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Selection.AutoFill Destination:=Range("ES8:ES2800")
Range("ES8:ES2800").Select
Range("ET8").Select

Selection.AutoFill Destination:=Range("ET8:ET2800")
Range("ET8:ET2800").Select
Range("K8").Select

Sheets("svalidhistmedsim").Select

Range("L8").Select

Selection.AutoFill Destination:=Range("L8:L2800")
Range("L8:L2800").Select
Range("M8").Select
Selection.AutoFill Destination:=Range("M8:M2800")
Range("M8:M2800").Select
Range("N8").Select

Selection.AutoFill Destination:=Range("N8:N2800")
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Range("O8").Select

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Range("W8").Select

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Range("Y8").Select

Selection.AutoFill Destination:=Range("Y8:Y2800")

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Range("Z8").Select

Selection.AutoFill Destination:=Range("Z8:Z2800")

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Range("AA8").Select

Selection.AutoFill Destination:=Range("AA8:AA2800")

Range("AA8:AA2800").Select

Range("AB8").Select

Selection.AutoFill Destination:=Range("AB8:AB2800")
Range("AB8:AB2800").Select
Range("AC8").Select

Selection.AutoFill Destination:=Range("AC8:AC2800")
Range("AC8:AC2800").Select
Range("AD8").Select

Selection.AutoFill Destination:=Range("AD8:AD2800")
Range("AD8:AD2800").Select
Range("AE8").Select

Selection.AutoFill Destination:=Range("AE8:AE2800")
Range("AE8:AE2800").Select
Range("AF8").Select

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Range("AF8:AF2800").Select
Range("AG8").Select
Selection.AutoFill Destination:=Range("AG8:AG2800")
Range("AG8:AG2800").Select
Range("AH8").Select

Selection.AutoFill Destination:=Range("AH8:AH2800")
Range("AH8:AH2800").Select
Range("AI8").Select

Selection.AutoFill Destination:=Range("AI8:AI2800")
Range("AI8:AI2800").Select
Range("AJ8").Select

Selection.AutoFill Destination:=Range("AJ8:AJ2800")
Range("AJ8:AJ2800").Select
Range("AK8").Select

Selection.AutoFill Destination:=Range("AK8:AK2800")
Range("AK8:AK2800").Select
Range("AL8").Select

Selection.AutoFill Destination:=Range("AL8:AL2800")
Range("AL8:AL2800").Select
Range("AM8").Select

Selection.AutoFill Destination:=Range("AM8:AM2800")
Range("AM8:AM2800").Select
Range("AN8").Select

Selection.AutoFill Destination:=Range("AN8:AN2800")
Range("AN8:AN2800").Select
Range("AO8").Select

Selection.AutoFill Destination:=Range("AO8:AO2800")
Range("AO8:AO2800").Select

Range("AP8").Select

Selection.AutoFill Destination:=Range("AP8:AP2800")
Range("AP8:AP2800").Select
Range("AQ8").Select
Selection.AutoFill Destination:=Range("AQ8:AQ2800")
Range("AQ8:AQ2800").Select
Range("AR8").Select

Selection.AutoFill Destination:=Range("AR8:AR2800")
Range("AR8:AR2800").Select
Range("AS8").Select

Selection.AutoFill Destination:=Range("AS8:AS2800")
Range("AS8:AS2800").Select
Range("AT8").Select

Selection.AutoFill Destination:=Range("AT8:AT2800")
Range("AT8:AT2800").Select
Range("AU8").Select

Selection.AutoFill Destination:=Range("AU8:AU2800")
Range("AU8:AU2800").Select
Range("AV8").Select

Selection.AutoFill Destination:=Range("AV8:AV2800")
Range("AV8:AV2800").Select
Range("AW8").Select

Selection.AutoFill Destination:=Range("AW8:AW2800")
Range("AW8:AW2800").Select
Range("AX8").Select

Selection.AutoFill Destination:=Range("AX8:AX2800")
Range("AX8:AX2800").Select
Range("AY8").Select

Selection.AutoFill Destination:=Range("AY8:AY2800")
Range("AY8:AY2800").Select
Range("AZ8").Select

Selection.AutoFill Destination:=Range("AZ8:AZ2800")
Range("AZ8:AZ2800").Select
Range("BA8").Select

Selection.AutoFill Destination:=Range("BA8:BA2800")
Range("BA8:BA2800").Select
Range("BB8").Select

Selection.AutoFill Destination:=Range("BB8:BB2800")
Range("BB8:BB2800").Select
Range("BC8").Select

Selection.AutoFill Destination:=Range("BC8:BC2800")
Range("BC8:BC2800").Select
Range("BD8").Select

Selection.AutoFill Destination:=Range("BD8:BD2800")
Range("BD8:BD2800").Select
Range("BE8").Select

Selection.AutoFill Destination:=Range("BE8:BE2800")
Range("BE8:BE2800").Select
Range("BF8").Select

Selection.AutoFill Destination:=Range("BF8:BF2800")
Range("BF8:BF2800").Select
Range("BG8").Select

Selection.AutoFill Destination:=Range("BG8:BG2800")
Range("BG8:BG2800").Select
Range("BH8").Select

Selection.AutoFill Destination:=Range("BH8:BH2800")
Range("BH8:BH2800").Select
Range("BI8").Select

Selection.AutoFill Destination:=Range("BI8:BI2800")
Range("BI8:BI2800").Select
Range("BJ8").Select

Selection.AutoFill Destination:=Range("BJ8:BJ2800")
Range("BJ8:BJ2800").Select
Range("BK8").Select

Selection.AutoFill Destination:=Range("BK8:BK2800")
Range("BK8:BK2800").Select
Range("BL8").Select

Selection.AutoFill Destination:=Range("BL8:BL2800")
Range("BL8:BL2800").Select
Range("BM8").Select

Selection.AutoFill Destination:=Range("BM8:BM2800")
Range("BM8:BM2800").Select
Range("BN8").Select

Selection.AutoFill Destination:=Range("BN8:BN2800")
Range("BN8:BN2800").Select
Range("BO8").Select

Selection.AutoFill Destination:=Range("BO8:BO2800")
Range("BO8:BO2800").Select
Range("BP8").Select

Selection.AutoFill Destination:=Range("BP8:BP2800")
Range("BP8:BP2800").Select

Range("BQ8").Select

Selection.AutoFill Destination:=Range("BQ8:BQ2800")

Range("BQ8:BQ2800").Select

Range("BR8").Select

Selection.AutoFill Destination:=Range("BR8:BR2800")

Range("BR8:BR2800").Select

Range("BS8").Select

Selection.AutoFill Destination:=Range("BS8:BS2800")

Range("BS8:BS2800").Select

Range("BT8").Select

Selection.AutoFill Destination:=Range("BT8:BT2800")

Range("BT8:BT2800").Select

Range("BU8").Select

Selection.AutoFill Destination:=Range("BU8:BU2800")

Range("BU8:BU2800").Select

Range("BV8").Select

Selection.AutoFill Destination:=Range("BV8:BV2800")

Range("BV8:BV2800").Select

Range("BW8").Select

Selection.AutoFill Destination:=Range("BW8:BW2800")

Range("BW8:BW2800").Select

Range("BX8").Select

Selection.AutoFill Destination:=Range("BX8:BX2800")

Range("BX8:BX2800").Select

Range("BY8").Select

Selection.AutoFill Destination:=Range("BY8:BY2800")

Range("BY8:BY2800").Select

Range("BZ8").Select

Selection.AutoFill Destination:=Range("BZ8:BZ2800")

Range("BZ8:BZ2800").Select

Range("CA8").Select

Selection.AutoFill Destination:=Range("CA8:CA2800")

Range("CA8:CA2800").Select

Range("CB8").Select

Selection.AutoFill Destination:=Range("CB8:CB2800")

Range("CB8:CB2800").Select

Range("CC8").Select

Selection.AutoFill Destination:=Range("CC8:CC2800")

Range("CC8:CC2800").Select

Range("CD8").Select

Selection.AutoFill Destination:=Range("CD8:CD2800")
Range("CD8:CD2800").Select
Range("CE8").Select

Selection.AutoFill Destination:=Range("CE8:CE2800")
Range("CE8:CE2800").Select
Range("CF8").Select

Selection.AutoFill Destination:=Range("CF8:CF2800")
Range("CF8:CF2800").Select
Range("CG8").Select

Selection.AutoFill Destination:=Range("CG8:CG2800")
Range("CG8:CG2800").Select
Range("CH8").Select

Selection.AutoFill Destination:=Range("CH8:CH2800")
Range("CH8:CH2800").Select
Range("CI8").Select

Selection.AutoFill Destination:=Range("CI8:CI2800")
Range("CI8:CI2800").Select
Range("CJ8").Select

Selection.AutoFill Destination:=Range("CJ8:CJ2800")
Range("CJ8:CJ2800").Select
Range("CK8").Select

Selection.AutoFill Destination:=Range("CK8:CK2800")
Range("CK8:CK2800").Select
Range("CL8").Select

Selection.AutoFill Destination:=Range("CL8:CL2800")
Range("CL8:CL2800").Select
Range("CM8").Select

Selection.AutoFill Destination:=Range("CM8:CM2800")
Range("CM8:CM2800").Select
Range("CN8").Select

Selection.AutoFill Destination:=Range("CN8:CN2800")
Range("CN8:CN2800").Select
Range("CO8").Select

Selection.AutoFill Destination:=Range("CO8:CO2800")
Range("CO8:CO2800").Select
Range("CP8").Select

Selection.AutoFill Destination:=Range("CP8:CP2800")
Range("CP8:CP2800").Select
Range("CQ8").Select

Selection.AutoFill Destination:=Range("CQ8:CQ2800")
Range("CQ8:CQ2800").Select

Range("CR8").Select

Selection.AutoFill Destination:=Range("CR8:CR2800")

Range("CR8:CR2800").Select

Range("CS8").Select

Selection.AutoFill Destination:=Range("CS8:CS2800")

Range("CS8:CS2800").Select

Range("CT8").Select

Selection.AutoFill Destination:=Range("CT8:CT2800")

Range("CT8:CT2800").Select

Range("CU8").Select

Selection.AutoFill Destination:=Range("CU8:CU2800")

Range("CU8:CU2800").Select

Range("CV8").Select

Selection.AutoFill Destination:=Range("CV8:CV2800")

Range("CV8:CV2800").Select

Range("CW8").Select

Selection.AutoFill Destination:=Range("CW8:CW2800")

Range("CW8:CW2800").Select

Range("CX8").Select

Selection.AutoFill Destination:=Range("CX8:CX2800")

Range("CX8:CX2800").Select

Range("CY8").Select

Selection.AutoFill Destination:=Range("CY8:CZ2800")

Range("CY8:CZ2800").Select

Range("CZ8").Select

Selection.AutoFill Destination:=Range("CZ8:CZ2800")

Range("CZ8:CZ2800").Select

Range("DA8").Select

Selection.AutoFill Destination:=Range("DA8:DA2800")

Range("DA8:DA2800").Select

Range("DB8").Select

Selection.AutoFill Destination:=Range("DB8:DB2800")

Range("DB8:DB2800").Select

Range("DC8").Select

Selection.AutoFill Destination:=Range("DC8:DC2800")

Range("DC8:DC2800").Select

Range("DD8").Select

Selection.AutoFill Destination:=Range("DD8:DD2800")

Range("DD8:DD2800").Select

Range("DE8").Select

Selection.AutoFill Destination:=Range("DE8:DE2800")
Range("DE8:DE2800").Select
Range("ET8").Select

Range("DF8").Select

Selection.AutoFill Destination:=Range("DF8:DF2800")
Range("DF8:DF2800").Select
Range("DG8").Select

Selection.AutoFill Destination:=Range("DG8:DG2800")
Range("DG8:DG2800").Select
Range("DH8").Select

Selection.AutoFill Destination:=Range("DH8:DH2800")
Range("DH8:DH2800").Select
Range("DI8").Select

Selection.AutoFill Destination:=Range("DI8:DI2800")
Range("DI8:DI2800").Select
Range("DJ8").Select

Selection.AutoFill Destination:=Range("DJ8:DJ2800")
Range("DJ8:DJ2800").Select
Range("DK8").Select

Selection.AutoFill Destination:=Range("DK8:DK2800")
Range("DK8:DK2800").Select
Range("DL8").Select

Selection.AutoFill Destination:=Range("DL8:DL2800")
Range("DL8:DL2800").Select
Range("DM8").Select

Selection.AutoFill Destination:=Range("DM8:DM2800")
Range("DM8:DM2800").Select
Range("DN8").Select

Selection.AutoFill Destination:=Range("DN8:DN2800")
Range("DN8:DN2800").Select
Range("DO8").Select

Selection.AutoFill Destination:=Range("DO8:DO2800")
Range("DO8:DO2800").Select
Range("DP8").Select

Selection.AutoFill Destination:=Range("DP8:DP2800")
Range("DP8:DP2800").Select
Range("DQ8").Select

Selection.AutoFill Destination:=Range("DQ8:DQ2800")
Range("DQ8:DQ2800").Select
Range("DR8").Select

Selection.AutoFill Destination:=Range("DR8:DR2800")
Range("DR8:DR2800").Select
Range("DS8").Select

Selection.AutoFill Destination:=Range("DS8:DS2800")
Range("DS8:DS2800").Select
Range("DT8").Select

Selection.AutoFill Destination:=Range("DT8:DT2800")
Range("DT8:DT2800").Select
Range("DU8").Select

Selection.AutoFill Destination:=Range("DU8:DU2800")
Range("DU8:DU2800").Select
Range("DV8").Select

Selection.AutoFill Destination:=Range("DV8:DV2800")
Range("DV8:DV2800").Select
Range("DW8").Select

Selection.AutoFill Destination:=Range("DW8:DW2800")
Range("DW8:DW2800").Select
Range("DX8").Select

Selection.AutoFill Destination:=Range("DX8:DX2800")
Range("DX8:DX2800").Select
Range("DY8").Select

Selection.AutoFill Destination:=Range("DY8:DY2800")
Range("DY8:DY2800").Select
Range("DZ8").Select

Selection.AutoFill Destination:=Range("DZ8:DZ2800")
Range("DZ8:DZ2800").Select
Range("EA8").Select

Selection.AutoFill Destination:=Range("EA8:EA2800")
Range("EA8:EA2800").Select
Range("EB8").Select

Selection.AutoFill Destination:=Range("EB8:EB2800")
Range("EB8:EB2800").Select
Range("EC8").Select

Selection.AutoFill Destination:=Range("EC8:EC2800")
Range("EC8:EC2800").Select
Range("ED8").Select

Selection.AutoFill Destination:=Range("ED8:ED2800")
Range("ED8:ED2800").Select
Range("EE8").Select

Selection.AutoFill Destination:=Range("EE8:EE2800")
Range("EE8:EE2800").Select
Range("EF8").Select

Selection.AutoFill Destination:=Range("EF8:EF2800")
Range("EF8:EF2800").Select
Range("EG8").Select

Selection.AutoFill Destination:=Range("EG8:EG2800")
Range("EG8:EG2800").Select
Range("EH8").Select

Selection.AutoFill Destination:=Range("EH8:EH2800")
Range("EH8:EH2800").Select
Range("EI8").Select

Selection.AutoFill Destination:=Range("EI8:EI2800")
Range("EI8:EI2800").Select
Range("EJ8").Select

Selection.AutoFill Destination:=Range("EJ8:EJ2800")
Range("EJ8:EJ2800").Select
Range("EK8").Select

Selection.AutoFill Destination:=Range("EK8:EK2800")
Range("EK8:EK2800").Select
Range("EL8").Select

Selection.AutoFill Destination:=Range("EL8:EL2800")
Range("EL8:EL2800").Select
Range("EM8").Select

Selection.AutoFill Destination:=Range("EM8:EM2800")
Range("EM8:EM2800").Select
Range("EN8").Select

Selection.AutoFill Destination:=Range("EN8:EN2800")
Range("EN8:EN2800").Select
Range("EO8").Select

Selection.AutoFill Destination:=Range("EO8:EO2800")
Range("EO8:EO2800").Select
Range("EP8").Select

Selection.AutoFill Destination:=Range("EP8:EP2800")
Range("EP8:EP2800").Select
Range("EQ8").Select

Selection.AutoFill Destination:=Range("EQ8:EQ2800")
Range("EQ8:EQ2800").Select
Range("ER8").Select

Selection.AutoFill Destination:=Range("ER8:ER2800")

Range("ER8:ER2800").Select
Range("ES8").Select

Selection.AutoFill Destination:=Range("ES8:ES2800")
Range("ES8:ES2800").Select
Range("ET8").Select

Selection.AutoFill Destination:=Range("ET8:ET2800")
Range("ET8:ET2800").Select
Range("C9").Select

Sheets("svalidgraficos").Select
Range("BG8:DB2800").Select Selection.Copy
Range("BG8").Select

Selection.PasteSpecial Paste:=xlPasteValues, Operation:=xlNone, SkipBlanks _
:=False, Transpose:=False

Selection.Replace What:="0", Replacement:="", LookAt:=xlWhole, _ SearchOrder:=xlByRows,
MatchCase:=False, SearchFormat:=False, _ ReplaceFormat:=False
Range("L8").Select

Sheets("svalidgraficos").Select
Range("K8:BF2800").Select Selection.Copy
Range("K8").Select
Selection.PasteSpecial Paste:=xlPasteValues, Operation:=xlNone, SkipBlanks _
:=False, Transpose:=False

Selection.Replace What:="0", Replacement:="", LookAt:=xlWhole, _ SearchOrder:=xlByRows,
MatchCase:=False, SearchFormat:=False, _ ReplaceFormat:=False

Range("L8").Select

Sheets("svalidgraficosim").Select
Range("BG8:DB2800").Select Selection.Copy
Range("BG8").Select
Selection.PasteSpecial Paste:=xlPasteValues, Operation:=xlNone, SkipBlanks _
:=False, Transpose:=False

Selection.Replace What:="0", Replacement:="", LookAt:=xlWhole, _ SearchOrder:=xlByRows,
MatchCase:=False, SearchFormat:=False, _ ReplaceFormat:=False

Range("L8").Select

Sheets("svalidgraficosim").Select
Range("K8:BF2800").Select Selection.Copy
Range("K8").Select
Selection.PasteSpecial Paste:=xlPasteValues, Operation:=xlNone, SkipBlanks _
:=False, Transpose:=False

```
Selection.Replace What:="0", Replacement:="", LookAt:=xlWhole, _ SearchOrder:=xlByRows, MatchCase:=False, SearchFormat:=False, _ ReplaceFormat:=False
```

```
Range("L8").Select
```

```
Sheets("svalidbolling").Select  
Range("k8:Bp2800").Select Selection.Copy  
Range("k8").Select  
Selection.PasteSpecial Paste:=xlPasteValues, Operation:=xlNone, SkipBlanks _  
  
:=False, Transpose:=False
```

```
Selection.Replace What:="0", Replacement:="", LookAt:=xlWhole, _ SearchOrder:=xlByRows, MatchCase:=False, SearchFormat:=False, _ ReplaceFormat:=False
```

```
Range("L8").Select
```

```
Sheets("svalidbolling").Select  
Range("BQ8:DV2800").Select Selection.Copy  
Range("BQ8").Select  
Selection.PasteSpecial Paste:=xlPasteValues, Operation:=xlNone, SkipBlanks _  
  
:=False, Transpose:=False
```

```
Selection.Replace What:="0", Replacement:="", LookAt:=xlWhole, _ SearchOrder:=xlByRows, MatchCase:=False, SearchFormat:=False, _ ReplaceFormat:=False
```

```
Range("L8").Select
```

```
Sheets("svalidbollingsim").Select  
Range("k8:Bp2800").Select Selection.Copy  
Range("k8").Select  
Selection.PasteSpecial Paste:=xlPasteValues, Operation:=xlNone, SkipBlanks _  
  
:=False, Transpose:=False
```

```
Selection.Replace What:="0", Replacement:="", LookAt:=xlWhole, _ SearchOrder:=xlByRows, MatchCase:=False, SearchFormat:=False, _ ReplaceFormat:=False
```

```
Range("L8").Select
```

```
Sheets("svalidbollingsim").Select  
Range("BQ8:DV2800").Select Selection.Copy  
Range("BQ8").Select  
Selection.PasteSpecial Paste:=xlPasteValues, Operation:=xlNone, SkipBlanks _  
  
:=False, Transpose:=False
```

```
Selection.Replace What:="0", Replacement:="", LookAt:=xlWhole, _ SearchOrder:=xlByRows, MatchCase:=False, SearchFormat:=False, _ ReplaceFormat:=False
```

```
Range("L8").Select
```

```
Sheets("svalidhistmed").Select
```

```

Range("k8:CB2800").Select Selection.Copy
Range("k8").Select
Selection.PasteSpecial Paste:=xlPasteValues, Operation:=xlNone, SkipBlanks _
:=False, Transpose:=False

Selection.Replace What:="0", Replacement:="", LookAt:=xlWhole, _ SearchOrder:=xlByRows,
MatchCase:=False, SearchFormat:=False, _ ReplaceFormat:=False
Range("L8").Select

Sheets("svalidhistmed").Select
Range("CC8:ET2800").Select Selection.Copy
Range("CC8").Select
Selection.PasteSpecial Paste:=xlPasteValues, Operation:=xlNone, SkipBlanks _
:=False, Transpose:=False

Selection.Replace What:="0", Replacement:="", LookAt:=xlWhole, _ SearchOrder:=xlByRows,
MatchCase:=False, SearchFormat:=False, _ ReplaceFormat:=False

Range("L8").Select

Sheets("svalidhistmedsim").Select
Range("k8:CB2800").Select Selection.Copy
Range("k8").Select

Selection.PasteSpecial Paste:=xlPasteValues, Operation:=xlNone, SkipBlanks _
:=False, Transpose:=False

Selection.Replace What:="0", Replacement:="", LookAt:=xlWhole, _
SearchOrder:=xlByRows, MatchCase:=False, SearchFormat:=False, _ ReplaceFormat:=False
Range("L8").Select

Sheets("svalidhistmedsim").Select
Range("CC8:ET2800").Select Selection.Copy
Range("CC8").Select
Selection.PasteSpecial Paste:=xlPasteValues, Operation:=xlNone, SkipBlanks _
:=False, Transpose:=False

Selection.Replace What:="0", Replacement:="", LookAt:=xlWhole, _ SearchOrder:=xlByRows,
MatchCase:=False, SearchFormat:=False, _ ReplaceFormat:=False
Application.CutCopyMode = False

Range("L8").Select Sheets("histmed").Select
Range("C37:A137").Select Selection.Copy
Range("C6:A136").Select
Selection.PasteSpecial Paste:=xlPasteValues, Operation:=xlNone, SkipBlanks _
:=False, Transpose:=False
Sheets("histmedsim").Select
Range("C37:A137").Select Selection.Copy

```

```
Range("C6:A136").Select  
Selection.PasteSpecial Paste:=xlPasteValues, Operation:=xlNone, SkipBlanks _
```

```
:=False, Transpose:=False
```

```
Application.CutCopyMode = False
```

```
End Sub
```