To get started, type doc.

For product information, visit www.mathworks.com.

>> v = 10:5:100

v =

Columns 1 through 14

10 15 20 25 30 35 40 45 50 55 60 65 70 75

Columns 15 through 19

80 85 90 95 100

>> v = 10:15

v =

10 11 12 13 14 15

>> a = [4 3 8 1]

a =

4 3 8 1

>> b = [2 2 1 6]

b =

2 2 1 6

>> a + b

ans =

6 5 9 7

>> c = a\*.b

c = a\*.b

↑

Invalid use of operator.

>> c = a.\*b

c =

8 6 8 6

>> d = a.^b

d =

16 9 8 1

>> a = rand(2,3)

a =

0.8147 0.1270 0.6324

0.9058 0.9134 0.0975

>> b = (a, eye(size(a))

b = (a, eye(size(a))

↑

Invalid expression. When calling a function or indexing a variable, use parentheses.

Otherwise, check for mismatched delimiters.

>> b = [a, eye(size(a)]

b = [a, eye(size(a)]

↑

Invalid expression. When calling a function or indexing a variable, use parentheses.

Otherwise, check for mismatched delimiters.

Did you mean:

>> b = [a, eye(size(a))]

b =

0.8147 0.1270 0.6324 1.0000 0 0

0.9058 0.9134 0.0975 0 1.0000 0

>> c = a(:,2:2:end)

c =

0.1270

0.9134

>> c = b(:,2:2:end)

c =

0.1270 1.0000 0

0.9134 0 0

>> d = b (1:2:end,:)

d =

0.8147 0.1270 0.6324 1.0000 0 0

>> a = rand(4)

a =

0.2785 0.1576 0.8003 0.7922

0.5469 0.9706 0.1419 0.9595

0.9575 0.9572 0.4218 0.6557

0.9649 0.4854 0.9157 0.0357

>> a'

ans =

0.2785 0.5469 0.9575 0.9649

0.1576 0.9706 0.9572 0.4854

0.8003 0.1419 0.4218 0.9157

0.7922 0.9595 0.6557 0.0357

>> suma(a,1)

Unrecognized function or variable 'suma'.

Did you mean:

>> sum(a,1)

ans =

2.7478 2.5707 2.2797 2.4432

>> sum(a,2)

ans =

2.0286

2.6189

2.9922

2.4017

>> trace(a)

ans =

1.7066

>> a(1,2)

ans =

0.1576

>> a(1:2)

ans =

0.2785 0.5469

>> a(1:2,1:2)

ans =

0.2785 0.1576

0.5469 0.9706

>> a = [1 1 0; 0 2 3; 3 3 1]

a =

1 1 0

0 2 3

3 3 1

>> a(3,) = a(3,) + 3 \* a(1,)

a(3,) = a(3,) + 3 \* a(1,)

↑

Invalid expression. When calling a function or indexing a variable, use parentheses.

Otherwise, check for mismatched delimiters.

>> a(3,:) = a(3,:) + 3 \* a(1,:)

a =

1 1 0

0 2 3

6 6 1

>> a(:,1) = a(:,3)

a =

0 1 0

3 2 3

1 6 1

>> b = [a(:,1);a(:,3)]

b =

0

3

1

0

3

1

>> b = [transpose(a(:,1));transpose(a(:,3))]

b =

0 3 1

0 3 1

>> a = [1 3 5 7]

a =

1 3 5 7

>> b = [2 4 6 8]

b =

2 4 6 8

>> c = [b; b\*2; b\*5; b\*7]

c =

2 4 6 8

4 8 12 16

10 20 30 40

14 28 42 56

EJERCICIO 7:

To get started, type doc.

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>> a = [2 1 5 -1; 4 -3 2 -1; 3 7 -3 4; -2 -2 4 0];

>> a ((a > -2) & (a < 4)) = 10;

>> a = [1 4 0; 0 2 3; 6 3 7];

>> b = zeros(size(a));

>> for i=1:size(a,1)

[valores,indices] = sort(a(i,:));

a(i,:) = valores;

b(i,:) = indices;

end

>> a = rand(2000,3000);

>> b = rand(2000,3000);

>> a.\*b;

>> ans = zeros(size(a));

>> for i = 1:size(a,1)

for j = 1:size(a,2)

ans(i,j) = a(i,j) \* b(i,j);

end

end

>> i = 0;

>> j = 0;

>> i = i + 1;

>> j = j + 1;

>> while i < size(a,1)

j = 1;

while j < size(a,2)

ans(i,j) = a(i,j) \* b(i,j);

j = j + 1;

end

i = i + 1;

end

>> tic

>> toc - tic

ans =

uint64

0

>> a = rand(2000,3000);

>> b = rand(2000,3000);

>> b = rand(1,2000);

>> bsxfun(@times,a, b’);

>> a.\*repmat(b’,1, size(a,2));

function resultado = elimina(numero)

if numero > 10 || numero < 5

disp('ERROR');

resultado = -1;

else

resultado = rand(1,numero);

resultado(4) = [];

disp(resultado);

end

end

function resultado = dividir(a,b)

c = a./b

c(isinf(c)) = -999;

c(isnan(c)) = 111;

End

>> x = linspace(-1, 6, 1000);

>> f = x.^4 - 5\*x.^3 + 4\*x.^2 + 2;

>> plot(x, f, 'b', 'LineWidth', 2);

>> title('Gráfico de f(x) = x^4 - 5x^3 + 4x^2 + 2');

>> xlabel('Eje x');

>> ylabel('Eje y');

>> a = [3 0 1;0 5 2;0 0 7];

>> b = [3 0 9;7 3 0;0 4 3];

>> x = linspace(-1, 6, 1000);

>> f = x.^4 - 5\*x.^3 + 4\*x.^2 + 2;

>> plot(x, f, 'b', 'LineWidth', 2);

>> title('Gráfico de f(x) = x^4 - 5x^3 + 4x^2 + 2');

>> xlabel('Eje x');

>> ylabel('Eje y');

>> grid on

>> hold off

>> x = 0:360;

>> seno = sin(deg2rad(x));

>> coseno = cos(deg2rad(x));

>> plot(x, seno\_x, 'r', 'LineWidth', 2);

Unrecognized function or variable 'seno\_x'.

Did you mean:

>> plot(x, seno, 'r', 'LineWidth', 2);

>> hold on;

>> plot(x, coseno\_x, 'g', 'LineWidth', 2);

Unrecognized function or variable 'coseno\_x'.

Did you mean:

>> plot(x, coseno, 'g', 'LineWidth', 2);

>> title('Gráfico de Seno y Coseno');

>> xlabel('Ángulo (grados)');

>> ylabel('Valor');

>> legend('Seno', 'Coseno');

Warning: Ignoring extra legend entries.

> In legend>process\_inputs (line 590)

In legend>make\_legend (line 319)

In legend (line 263)

>> plot(x, seno, 'r', 'LineWidth', 2); % Seno en rojo

>> plot(x, coseno, 'g', 'LineWidth', 2);

>>