clc

a=[2 1;4 3]

a =

 2 1

 4 3

a(2,1)

ans =

 4

a(2,1)=7

a =

 2 1

 7 3

a(1,1:2)

ans =

 2 1

a(1:2,2)

ans =

 1

 3

a(:,2)

ans =

 1

 3

a(1,:)

ans =

 2 1

a(1:end,2)

ans =

 1

 3

x=[2 3 4]

x =

 2 3 4

length(x)

ans =

 3

a

a =

 2 1

 7 3

length(a)

ans =

 2

[f c]=size(a)

f =

 2

c =

 2

ones(2,3)

ans =

 1 1 1

 1 1 1

ones(2)

ans =

 1 1

 1 1

zeros(2,3)

ans =

 0 0 0

 0 0 0

eye(3)

ans =

 1 0 0

 0 1 0

 0 0 1

%ones zeros eye

magic(3)

ans =

 8 1 6

 3 5 7

 4 9 2

rand(2,3)

ans =

 0.8147 0.1270 0.6324

 0.9058 0.9134 0.0975

 10\*rand(2,3)

ans =

 2.7850 9.5751 1.5761

 5.4688 9.6489 9.7059

clc

a

a =

 2 1

 7 3

a(2,1)

ans =

 7

a(3)

ans =

 1

a(:)

ans =

 2

 7

 1

 3

a(:,:)

ans =

 2 1

 7 3

sum(a)

ans =

 9 4

sum(sum(a))

ans =

 13

b=a+2

b =

 4 3

 9 5

a

a =

 2 1

 7 3

b

b =

 4 3

 9 5

a.\*b

ans =

 8 3

 63 15

clc

b=[a a]

b =

 2 1 2 1

 7 3 7 3

b=[a a; a 2\*a]

b =

 2 1 2 1

 7 3 7 3

 2 1 4 2

 7 3 14 6

cumsum(b)

ans =

 2 1 2 1

 9 4 9 4

 11 5 13 6

 18 8 27 12

a

a =

 2 1

 7 3

b

b =

 2 1 2 1

 7 3 7 3

 2 1 4 2

 7 3 14 6

sum(b')'

ans =

 6

 20

 9

 30

c=[a(1:2,1),[2 3]']

c =

 2 2

 7 3

c(3,4)=5

c =

 2 2 0 0

 7 3 0 0

 0 0 0 5

c(3,3)=[]

{??? Subscripted assignment dimension mismatch.}

c(:,3)=[]

c =

 2 2 0

 7 3 0

 0 0 5

c(1:2:3,2:3)=[]

{??? Subscripted assignment dimension mismatch.}

c(1:2:3,:)=[]

c =

 7 3 0

clc

b

b =

 2 1 2 1

 7 3 7 3

 2 1 4 2

 7 3 14 6

%cuantos elementos son >5

b>5

ans =

 0 0 0 0

 1 0 1 0

 0 0 0 0

 1 0 1 1

sum(sum(b>5))

ans =

 5

%sumar los >5

sum(sum(b.\*(b>5)))

ans =

 41

b(b>5)

ans =

 7

 7

 7

 14

 6

sum(b(b>5))

ans =

 41

b

b =

 2 1 2 1

 7 3 7 3

 2 1 4 2

 7 3 14 6

%sumar 1 a los >5

c=b

c =

 2 1 2 1

 7 3 7 3

 2 1 4 2

 7 3 14 6

b

b =

 2 1 2 1

 7 3 7 3

 2 1 4 2

 7 3 14 6

b(b>5)=b(b>5)+1

b =

 2 1 2 1

 8 3 8 3

 2 1 4 2

 8 3 15 7

%ubicar los >5

i=find(b>5)

i =

 2

 4

 10

 12

 16

[f c]=find(b>5)

f =

 2

 4

 2

 4

 4

c =

 1

 1

 3

 3

 4

b(i)=b(i)+1

b =

 2 1 2 1

 9 3 9 3

 2 1 4 2

 9 3 16 8

%sumar 20 al minimo

min(min(b))

ans =

 1

i=find(b==min(min(b)))

i =

 5

 7

 13

b(i)=b(i)+20

b =

 2 21 2 21

 9 3 9 3

 2 21 4 2

 9 3 16 8

b=c

b =

 1

 1

 3

 3

 4

a

a =

 2 1

 7 3

b=[a a; a 2\*a]

b =

 2 1 2 1

 7 3 7 3

 2 1 4 2

 7 3 14 6

%columnas son las Practicas

%las filas son alumnos

%Hallar el prom prac de cada alumno

mean(b')

ans =

 1.5000 5.0000 2.2500 7.5000

mean(b')'

ans =

 1.5000

 5.0000

 2.2500

 7.5000

%Prom de prac, eliminando la la menor prac

[f c]=size(b);

pp=(sum(b')'-min(b')')/(c-1)

pp =

 1.6667

 5.6667

 2.6667

 9.0000

%promedio de cada practica en todo el salon

pps=mean(b)

pps =

 4.5000 2.0000 6.7500 3.0000

b

b =

 2 1 2 1

 7 3 7 3

 2 1 4 2

 7 3 14 6

%nota <=7, sumar 2

%nota >7 sumar 1

c=b

c =

 2 1 2 1

 7 3 7 3

 2 1 4 2

 7 3 14 6

b(b<=7)=b(b<=7)+2

b =

 4 3 4 3

 9 5 9 5

 4 3 6 4

 9 5 14 8

b=c

b =

 2 1 2 1

 7 3 7 3

 2 1 4 2

 7 3 14 6

b(b>7)=b(b>7)+2;

b(b<=7)=b(b<=7)+1

b =

 3 2 3 2

 8 4 8 4

 3 2 5 3

 8 4 16 7

b=c

b =

 2 1 2 1

 7 3 7 3

 2 1 4 2

 7 3 14 6

b=b+2\*(b<=7)+1\*(b>7)

b =

 4 3 4 3

 9 5 9 5

 4 3 6 4

 9 5 15 8

%Halar el alumno k y la practica j

%con la mayor nota historica

[k j]= find(b==max(max(b)))

k =

 4

j =

 3

clc

A=[2 1;1 -2];

b=[7;1];

x=A^-1\*b

x =

 3.0000

 1.0000

x=inv(A)\*b

x =

 3.0000

 1.0000

x=A\b

x =

 3

 1