clc

x=[ 3 4 2 7 1 5]

x =

 3 4 2 7 1 5

%mostrar los >3

x(x>3)

ans =

 4 7 5

% a todos los >3 sumarles 1

x(x>3)=x(x>3)+1

x =

 3 5 2 8 1 6

x(x>4)=x(x>4)-1

x =

 3 4 2 7 1 5

x=x+1.\*(x>3)

x =

 3 5 2 8 1 6

x=x-1.\*(x>3)

x =

 3 4 2 7 1 5

%en que posiciones estan los >3

a=length(x)

a =

 6

i=1:a

i =

 1 2 3 4 5 6

i(x>3)

ans =

 2 4 6

z=[ 3 4 0 2 0 1];

find(z)

ans =

 1 2 4 6

find(x>3)

ans =

 2 4 6

%sumar 1 a los >3

i=find(x>3)

i =

 2 4 6

x(i)=x(i)+1

x =

 3 5 2 8 1 6

notas=[14 8 12 9 20];

credi=[5 2 4 1 6];

pp=sum(notas.\*credi)/sum(credi)

pp =

 14.6111

%ppa

ppa=sum(notas.\*credi.\*(notas>=10))/sum(credi.\*(notas>=10))

ppa =

 15.8667

i=find(notas>=10)

i =

 1 3 5

ppa=sum(notas(i).\*credi(i))/sum(credi(i))

ppa =

 15.8667

clc

t=1:2:8

t =

 1 3 5 7

t(1:2:3)

ans =

 1 5

t([4 1 2])

ans =

 7 1 3

t(1:3)

ans =

 1 3 5

t(1:end)

ans =

 1 3 5 7

t

t =

 1 3 5 7

t(end:-1:1)

ans =

 7 5 3 1

a=length(t);

t(a:-1:1)

ans =

 7 5 3 1

x

x =

 3 5 2 8 1 6

x(4)=[]

x =

 3 5 2 1 6

x(x>3)=[]

x =

 3 2 1

mod(7,3)

ans =

 1

x=[3 4 2 7 1 5]

x =

 3 4 2 7 1 5

%sumar 1 a los elementos pares

i=find(mod(x,2)==0)

i =

 2 3

y=find(mod(x,2)~=0)

y =

 1 4 5 6

x(i)=x(i)+1

x =

 3 5 3 7 1 5

%Ejercicio de sumatoria.

clc

n=1:20;

d=2:21;

t=(n./d).^2;

t(2:2:end)=-t(2:2:end);

S=sum(t)

S =

 -0.3908

%Ejercicio de sumatoria.

n1=n(1:2:end);

d1=d(1:2:end);

n2=n(2:2:end);

d2=d(2:2:end);

S1=sum((n1./d1).^2);

S2=sum((n2./d2).^2);

S=S1-S2

S =

 -0.3908

%Ejercicio de sumatoria.

clc

n=1:20;

d=2:21;

n1=n(1:2:end);

d1=d(1:2:end);

n2=n(2:2:end);

d2=d(2:2:end);

S1=sum((n1./d1).^2);

S2=sum((n2./d2).^2);

S=S1-S2

S =

 -0.3908

x

x =

 3 5 3 7 1 5

sort(x)

ans =

 1 3 3 5 5 7

x

x =

 3 5 3 7 1 5

x=sort(x)

x =

 1 3 3 5 5 7

x=x(end:-1:1)

x =

 7 5 5 3 3 1

x

x =

 7 5 5 3 3 1

x=x(end:-1:1)

x =

 1 3 3 5 5 7

clc

x=[3 4 2 7 1 5]

x =

 3 4 2 7 1 5

sort(-x)

ans =

 -7 -5 -4 -3 -2 -1

-sort(-x)

ans =

 7 5 4 3 2 1

x

x =

 3 4 2 7 1 5

cumsum(x)

ans =

 3 7 9 16 17 22

cumprod(x)

ans =

 3 12 24 168 168 840

x

x =

 3 4 2 7 1 5

factorial(x)

ans =

 Columns 1 through 4

 6 24 2 5040

 Columns 5 through 6

 1 120

%Ejercicio de sumatoria.

clc

x=0.5;

ones(2,3)

ans =

 1 1 1

 1 1 1

1:20;

a=1:20;

a=a>0;

a

a =

 Columns 1 through 8

 1 1 1 1 1 1 1 1

 Columns 9 through 16

 1 1 1 1 1 1 1 1

 Columns 17 through 20

 1 1 1 1

n=ones(1,20)\*x;

clc

n=ones(1,20)\*x;

a=1:20;

t=(n.^a)./factorial(a);

t(2:2:end)=-t(2:2:end);

S=sum(t)

S =

 0.3935

clc

r=[ 2 4 3 6 4 4 5 2]

r =

 2 4 3 6 4 4 5 2

r=[ 2 4 3 6 4 4 5]

r =

 2 4 3 6 4 4 5

n=length(r);

a=r(1:n-1)

a =

 2 4 3 6 4 4 5

a(end)=[]

a =

 2 4 3 6 4 4

diary off