Q 4.

x1=float(input("x1= "))

y1=float(input("y1= "))

x2=float(input("x2= "))

y2=float(input("y2= "))

x3=float(input("x3= "))

y3=float(input("y3= "))

a=x1\*y2+x2\*y3+x3\*y1-y1\*x2-y2\*x3-y3\*x1

if a<0:

a=-a

a=0.5\*a

print(a)

Q2.

from array import \*

y=input("Enter a string ")

from math import sqrt,ceil

m=0

j=0

x=ceil(sqrt(len(y)))

a=[["\*" for i in range(x)]for j in range(x)]

while(m<x):

i=0

while((i<=m) and (j<len(y))):

a[m-i][i]=y[j]

print(a[i][m-i])

j+=1

i+=1

m+=1

m-=1

while(m>=0):

i=x-m

while((i<=m) and (j<len(y))):

a[x+m-2-i][i]=y[j]

j+=1

i+=1

m-=1

for b in range(x):

print(a[b])

Q5.

def listing(\*varlist):

for i in varlist:

a.append(i)

a=list()

listing(input("Enter the numbers "))

k=int(input("Enter k "))

for u in range(1,k):

s=min(a)

b=a.count(s)

for p in range(b):

a.remove(s)

if(a==None):

print("Does not exist ")

else:

print(min(a))