# Практическая работа 5

## Задача 1

## Задача 2

## Задача 3

## Задача 6

## Задача 7

## Задача 10

```
In [86]: sum = 0
    kol = 0
    E = int(input())
    while E != 0:
        sum += E
        kol += 1
        E = int(input())
    print(sum / kol)

1
    7
    9
    0
    5.66666666666667
```

#### Задача 13

```
In [102]: N,p = int(input()),int(input())
          if N < p:
              N, p = p, N
          E = int(input())
          while E != 0:
              if E > N:
                   p, N = N, E
               elif E > p:
                  p = E
               E = int(input())
          print(p)
          1
          2
          3
          4
          5
          0
          4
```

```
In [113]: max = 0
           kol = 0
           E = -1
           while E != 0:
               E = int(input())
               if E > max:
                   max, kol = E, 1
               elif E == max:
                   kol += 1
           print(kol)
          1
          3
          1
          3
          0
          2
```

### Задача 16

```
In [121]: A = int(input())
           if A == 0:
               print(0)
           else:
               x, y = 0, 1
               n = 1
               while y<= A:
                   if y == A:
                       print(n)
                       break
                   x, y = y, x + y
                   n += 1
               else:
                   print(-1)
          10
           -1
```

```
In [1]: n = int(input())
         i = int(input())
         while n!=i:
             if n\%2 = = 0 and n//2 > = i :
                  n = n//2
                  print(':2')
             else:
                  n=n-1
                  print('-1')
         179
         20
         -1
         :2
         -1
         :2
         :2
         -1
         -1
```

## Задача 19

```
In [13]: K = int(input())
p = 0
r = 0
for p in range(1, K+1):
    Number = p
    D = 0
    while Number > 0:
        D = D * 10 + Number % 10
        Number = Number // 10
    if p == D:
        r += 1
print(r)
```

```
In [8]: p=int(input())
         c=1
         b=0
         while p!=0:
             v=int(input())
             p,v=v,p
             if v==p:
                 c+=1
             if c>b:
                 b=c
             if p!=v:
                 c=1
         print(b)
        1
        7
        7
        9
        1
        0
        2
```

```
In [21]: x1,x2=int(input()), int(input())
          \max, n = 1, 1
          while 0==0:
              if x2==0 or x1==0:
                  break
              while x1>x2:
                  if x2==0:
                      break
                  n+=1
                  if n>max:
                      max=n
                      x1=x2
                      x2=int(input())
                  else:
                      x1=x2
                      x2=int(input())
              n=1
              while x1<x2:
                  n+=1
                  if n>max:
                      max=n
                      x1=x2
                      x2=int(input())
                  else:
                      x1=x2
                      x2=int(input())
              n=1
              while x1==x2:
                  n=1
                  x1=x2
                  x2=int(input())
          print(max)
```

```
In [20]: x, R= 1, 1
         i, D, E = 0, 0, 0
         m = 0
         g = 0
         q = 1000000
         while R != 0:
             i += 1
             E = D
             D = R
             R = int(input())
             if i > 2 and D > R and D > E and R != 0:
                 g = m
                 m = i
                 if (m > 0) and (g > 0) and (m - g < q):
                     q = m - g
         if q == 1000000:
             q = 0
         print(q)
         1
```

```
In [28]: a,b,c = int(input()),int(input()),int(input())
p = (a+b+c)/2
S = (p*(p-a)*(p-b)*(p-c))**0.5
print(S)

5
12
13
30.0
```