# Практическая работа 5

### Задача 1

### Задача 2

# Задача 3

# Задача 6

### Задача 7

### Задача 9

### Задача 10

```
In [26]: N=int(input())
         s=0
         while N!=0:
              s+=N
              N=int(input())
         print(s)
         34
         2345
         2345
         2345
         2345
         345
         345
         3
         345
         1
         3
         424
         5
         453
         11341
```

```
In [30]: N=int(input())
         s=0
         count=0
         while N!=0:
             s+=N
             count+=1
             N=int(input())
         s=s/count
         print(s)
         34
         2345
         2345
         2345
         2345
         345
         3
         345
         3
         345
         1
         3
         424
         5
         453
         756.066666666667
```

```
In [32]:
         N=int(input())
          count=0
         while N!=0:
              if N%2==0:
                  count+=1
              N=int(input())
         print(count)
         1
         3
         5
         7
         9
         1
         3
         5
         7
         9
         0
         0
```

```
In [35]:
         N=int(input())
          s=N
          count=0
         while N!=0:
              if N>s:
                  count+=1
              s=N
              N=int(input())
         print(count)
         1
         2
         3
         4
         5
         0
         4
```

```
In [41]:
          max1=int(input())
          el=int(input())
          max2=el
          while el!=0:
              if el>=max1:
                   (\max2,\max1)=(\max1,e1)
              elif max2<el<=max1:</pre>
                   max2=el
              el=int(input())
          print(max2)
          1
          2
          2
          3
          3
          0
          3
```

## Задача 15

```
In [6]: el=int(input())
    max1=el
    count=0
    while el!=0:
        if el==max1:
            count+=1
        if el>max1:
            max1=el
        el=int(input())
    print(count)
```

```
In [9]: F1=1
F2=1
n=int(input())
i=0
while i<n-2:
    summ=F1+F2
    F1=F2
    F2=summ
    i+=1
print(F2)</pre>
3
2
```

# Задача 17

```
In [16]:
          F1=1
          F2=1
          A=int(input())
          i=2
          summ=F1+F2
          while summ<A:</pre>
              summ=F1+F2
              F1=F2
              F2=summ
              i+=1
          if summ==A:
              print(i)
          else:
              print('-1')
          13
          7
```

```
In [20]:
          A=int(input())
          B=int(input())
          while A!=B:
              if A//2 >= B and A\%2 == 0:
                  print (':2')
                  A//=2
              else:
                  print ('-1')
                  A-=1
          1023
          1
          -1
          :2
          -1
          :2
          -1
          :2
          -1
          :2
          -1
          :2
          -1
          :2
          -1
          :2
          -1
          :2
          -1
          :2
```

```
In [25]: N=int(input())
N2=0
while N>0:
    r=N%10
    N//=10
    N2*=10
    N2+=r
    print(N2)
874
478
```

```
In [37]:
          K=int(input())
          N=1
          count=0
          while N<=K:</pre>
              N2=0
              pr=N
              while pr>0:
                   r=pr%10
                   pr//=10
                   N2*=10
                   N2+=r
              if N==N2:
                   count+=1
              N+=1
          print(count)
          10
          9
```

```
In [46]:
         N=int(input())
         prN=0
         count=1
         prcount=1
         while N>=0:
              if N==prN:
                  count+=1
              elif count>prcount:
                  prcount=count
                  count=1
              if N==0:
                  break
              prN=N
              N=int(input())
         print(prcount)
```

```
In [52]: N=int(input())
         prN=0
          countA=1
          countB=1
          i=0
         while N>=0:
              if N>prN and (i==1 or i==3) and N!=0:
                  countA+=1
              elif N<prN and (i==2 or i==3) and N!=0:
                  countA+=1
                  i=2
              else:
                  if countA>countB:
                      countB=countA
                  if N>prN:
                      i=1
                  elif N<prN:</pre>
                      i=2
                  else:
                      i=3
                  countA=1
              if N==0:
                  break
              prN=N
              N=int(input())
          print(countB)
```

1

4

```
In [63]:
          max1=0
          max2=0
          i=0
          N1=1
          N2=0
          N3=0
          1=999999
          while N1!=0:
              i+=1
              N3=N2
              N2=N1
              N1=int(input())
              if i>2 and N2>N1 and N2>N3 and N1!=0:
                  max2=max1
                  max1=i
                  if max1>0 and max2>0 and max1-max2<1:</pre>
                       1=max1-max2
          if 1==999999:
              1=0
          print(1)
         1
         2
         1
         2
         1
```