# Практическая работа 4

# Задача 1

```
In [1]: A=int(input())
B=int(input())

if A>=B:
    print(A)
else:
    print(B)

8
5
8
```

# Задача 2

# Задача 3

```
In [5]: N=int(input())

if N%4!=0:
    print('NO')
elif N%100==0:
    if N%400==0:
        print('YES')
    else:
        print('NO')
else:
    print('YES')
```

# Задача 6

# Задача 9

```
In [25]: n=int(input())
t='Ha πyry πaceτcя'

if n>=11 and n<=14:
    print(t,n,'κοροΒ')
else:
    i=n%10
    if i==0 or (i>=5 and i<=9):
        print(t,n,'κοροΒ')
    if i==1:
        print(t,n,'κοροΒa')
    if i>=2 and i<=4:
        print(t,n,'κοροΒы')</pre>
```

### Задача 10

На лугу пасется 1 корова

```
In [26]: x=int(input())

if x>0:
    print('1')
elif x<0:
    print('-1')
else:
    print('0')</pre>
3
1
```

```
In [27]:
         x1=int(input())
         y1=int(input())
         x2=int(input())
         y2=int(input())
         if (y1>0 and y2>0) or (y1<0 and y2<0):
              if (x1>0 and x2>0) or (x1<0 and x2<0):
                  print('YES')
              else:
                  print('NO')
         else:
              print('NO')
         3
         3
         5
         1
         YES
```

#### Задача 12

```
In [30]: x1=int(input())
    y1=int(input())
    x2=int(input())
    y2=int(input())

if y2<=y1 or (x1+y1)%2!=(x2+y2)%2:
        print('NO')
    elif x1-(y2-y1)<=x2 and x1+(y2-y1)>=x2:
        print('YES')
    else:
        print('NO')

2
2
1
1
1
NO
```

```
In [34]: a1=int(input())
          a2=int(input())
          a3=int(input())
          if a1>=a2 and a1>=a3:
              maxa=a1
              oth1=a2
              oth2=a3
          elif a2>=a1 and a2>=a3:
              maxa=a2
              oth1=a1
              oth2=a3
          else:
              maxa=a3
              oth1=a1
              oth2=a2
          if (maxa**2)==(oth1**2+oth2**2):
              print('rectangular')
          elif maxa<oth1+oth2:</pre>
              print('obtuse')
          else:
              print('impossible')
         3
         5
         4
         rectangular
```

```
a,b,c=int(input()),int(input()),int(input())
In [42]:
          if a>=b and a>=c:
              if b>=c:
                   (a,c)=(c,a)
              else:
                   (a,c)=(c,a)
                   (b,a)=(a,b)
          elif b>=a and b>=c:
              if c>=a:
                   (b,c)=(c,b)
              else:
                   (b,c)=(c,b)
                   (a,b)=(b,a)
          elif b<=a:</pre>
              (a,b)=(b,a)
          print(a,b,c)
          3
          2
          1
          1 2 3
```

```
In [43]: a,b,c=int(input()),int(input()),count=0
    if a==b==c:
        print('3')
    elif a==b or b==c or a==c:
        print('2')
    else:
        print('0')

1
2
3
0
```

# Задача 17

```
In [46]: A,B,C,D,E=int(input()),int(input()),int(input()),int(input()),int(input())
if (A<=D and B<=E) or (A<=E and B<=D):
    print('YES')
elif (A<=D and C<=E) or (A<=E and C<=D):
    print('YES')
elif (C<=D and B<=E) or (C<=E and B<=D):
    print('YES')
else:
    print('NO')</pre>
```



```
In [50]:
         A1,B1,C1,A2,B2,C2=int(input()),int(input()),int(input()),int(input()),int(inp
         ut()),int(input())
         if A1>=B1 and B1>=C1:
             S1=A1
             S2=B1
             S3=C1
         elif A1>=B1 and C1>=A1:
             S1=C1
             S2=A1
             S3=B1
         elif A1>=C1 and C1>=B1:
             S1=A1
             S2=C1
             S3=B1
         elif B1>=A1 and B1>=C1:
             S1=B1
             S2=A1
             S3=C1
         elif B1>=C1 and C1>A1:
             S1=B1
             S2=C1
             S3=A1
         elif C1>A1 and B1>A1:
             S1=C1
             S2=B1
             S3=A1
         if A2>=B2 and B2>=C2:
             W1=A2
             W2=B2
             W3=C2
         elif A2>=B2 and C2>A2:
             W1=C2
             W2=A2
             W3=B2
         elif A2>=C2 and C2>B2:
             W1=A2
             W2=C2
             W3=B2
         elif B2>A2 and A2>=C2:
             W1=B2
             W2=A2
             W3=C2
         elif B2>=C2 and C2>A2:
             W1=B2
             W2=C2
             W3=A2
         elif C2>A2 and B2>A2:
             W1=C2
             W2=B2
             W3=A2
         if S1==W1 and S2==W2 and S3==W3:
             print("Boxes are equal")
         elif S1>=W1 and S2>=W2 and S3>=W3:
             print("The first box is larger than the second one")
         elif W1>S1 and W2>S2 and W3>S3:
             print("The first box is smaller than the second one")
         else:
             print("Boxes are incomparable")
```

```
2
2
3
3
2
1
The first box is larger than the second one
```

```
In [57]:
         a,b,c=int(input()),int(input()),int(input())
         d,e,f=int(input()),int(input()),int(input())
         res=0
         i=0
         i=(a//d)*(b//e)*(c//f)
         if i>res:
              res=i
         i=(a//d)*(b//f)*(c//e)
         if i>res:
              res=i
         i=(a//e)*(b//d)*(c//f)
         if i>res:
              res=i
         i=(a//e)*(b//f)*(c//d)
         if i>res:
              res=i
         i=(a//f)*(b//d)*(c//e)
         if i>res:
              res=i
         i=(a//f)*(b//e)*(c//d)
         if i>res:
              res=i
         print(res)
```

# Задача 20

```
In [66]: k=int(input())
    if k%5==0 or k%3==0 or (k>7):
        print('YES')
    else:
        print('NO')

3
YES
```

```
In [63]: a,b,c,d=int(input()),int(input()),int(input())
if a==0 and b==0:
    print('INF')
elif a==0 or b/a==d/c:
    print('NO')
else:
    print(int(-b/a))
```

```
In [71]: k,m,n=int(input()),int(input())
if n<=k:
    print(int(2*m))
elif (2*n)%k==0:
    print(int(m*((2*n)//k)))
else:
    print(int(m*((n*2)//k+1)))</pre>
1
2
5
20
```

#### Задача 23

```
11,r1=int(input()),int(input())
In [3]:
         12,r2=int(input()),int(input())
         13,r3=int(input()),int(input())
         if (11 \ge 0) and (11 < r1) and (r1 <= 100) and \setminus
                  (12 >= 0) and (12 < r2) and (r2 <= 100) and \setminus
                  (13 >= 0) and (13 < r3) and (r3 <= 100):
             if ((12 - r1) \leftarrow 1) and ((13-r2) \rightarrow 1) and (11 \leftarrow 12) and (
                      (12 < r3) and (11 < r3):
                  print('3')
             elif ((12-r1) > 1) and ((13-r2) > 1) and (12-r1) <= (r3-13):
                  print('3')
             elif ((12-r1) > 1) and ((13-r2) <= 1):
                  print('1')
             elif ((12-r1) \le 1) and (((13-r2) \le 1) or ((13-r1) \le 1)):
                  print('0')
             else:
                  print('-1')
         else:
             print('-1')
```

```
2
4
5
3
6
1
```

0



```
In [2]: | 11,w1,h1=int(input()),int(input()),int(input())
         12,w2,h2=int(input()),int(input()),int(input())
         lc,wc,hc=int(input()),int(input()),int(input())
         i=1
         lenght=11
         if l1<w1:
             11=w1
             w1=lenght
         lenght=12
         if 12<w2:
             12 = w2
             w2=lenght
         lenght=lc
         if lc<=wc:</pre>
             1c=wc
             wc=lenght
         if l1<=lc and w1<=wc and l2<=lc and w2<=wc:</pre>
             if h1>hc or h2>hc:
                  print("NO")
                  i=0
             if i==1 and l1<=lc and w1<=wc:</pre>
                  if i==1 and 12<=wc-w1 and w2<=1c:
                      print("YES")
                      i=0
                  elif i==1 and w2<=wc-w1 and 12<=1c:
                      print("YES")
                      i=0
                  elif i==1 and 12<=1c-11 and w2<=wc:
                      print("YES")
                      i=0
                  elif i==1 and w2<=lc-l1 and l2<=wc:</pre>
                      print("YES")
                      i=0
             if i==1 and w1<=lc and l1<=wc:</pre>
                  if i==1 and l2<=wc-l1 and w2<=lc:</pre>
                      print("YES")
                      i=0
                  elif i==1 and 12 <=1c and w2 <=wc-11:
                      print("YES")
                      i=0
                  elif i==1 and l2<=lc-w1 and w2<=wc:</pre>
                      print("YES")
                      i=0
                  elif i==1 and w2<=lc-w1 and l2<=wc:</pre>
                      print("YES")
                      i=0
             if i==1 and h1+h2<=hc and l1<=lc and w1<=wc and l2<=lc and w2<=wc:
                  print("YES")
                  i=0
             elif i==1:
                  print("NO")
         else:
             print("NO")
```

YES

In [ ]: