Практическая работа 8

Задача 1

Задача 2

Задача 3

```
In [34]: s = list(input().split(' '))
for i in reversed(s):
    print(i, end=' ')

4 5 6 23 5
5 23 6 5 4
```

Задача 4

```
In [38]: Str = [int(s) for s in input().split()]
k = int(input())
for i in range(k + 1, len(Str)):
    Str[i - 1] = Str[i]
Str.pop()
print(' '.join([str(i) for i in Str]))

4 -3 5 2 -5
2
4 -3 2 -5
```

```
In [39]: Str = [int(i) for i in input().split()]
for i in range(1, len(Str), 2):
        Str[i - 1], Str[i] = Str[i], Str[i - 1]

print(' '.join([str(i) for i in Str]))

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

Задача 7

Задача 8

```
In [57]: n = list(map(int, input().split()))
          s = []
          for i in range(n[1]):
              s.append(int(input()))
          s.sort()
          d, c = 0, 0
          for i in s:
              d += i
              if d <= n[0]:</pre>
                  c += 1
          print(c)
          100 3
          50
          30
          50
          2
```

```
In [60]: def kv(n, a, m):
              Count = [0] * n
              for cl in a:
                  Count[cl - 1] += 1
              for i in range(n):
                  if m[i] < Count[i]:</pre>
                      print('YES')
                  else:
                      print('NO')
         n = int(input())
         m = [int(i) for i in input().split()]
         k = int(input())
          a = [int(i) for i in input().split()]
         kv(n, a, m)
         5
         1 50 3 4 3
         1 2 3 4 5 1 3 3 4 5 5 5 5 5 4 5
         YES
         NO
         NO
         NO
         YES
```

```
In [66]: def CountSort(list):
    sort= [0] * 101
    for i in list:
        sort[i] += 1
    for i in range(101):
        print((str(i) + ' ') * sort[i], end='')
    list = [int(i) for i in input().split()]
    CountSort(list)

9 8 7 6 5 4 3 2 1 0
    0 1 2 3 4 5 6 7 8 9
```

Задача 11

```
In [80]: def rv(string):
    string = string.replace('-', '').replace('(', '').replace(')', '')
    return string[-10:] if len(string)>7 else '495' + string[-7:]

n = 4
notes = [input() for _ in range(n)]
for note in notes[1:]:
    print('YES' if rv(notes[0]) == rv(note) else 'NO')

8(495)430-23-97
+7-4-9-5-43-023-97
4-3-0-2-3-9-7
8-495-430
YES
YES
NO
```

```
In [85]: A = dict()
         D = []
          F = []
          x = int(input())
          for n in range (x):
              F = input().split()
             key = F[0]
              del F[0]
              val = F
             A[key]=val
          word = int(input())
          for i in range (word):
              D.append(input())
          for i in range(word):
              for key, val in A.items():
                  if D[i] in val:
                      print(key)
```

```
Russia Moscow Petersburg Novgorod Kaluga
Ukraine Kiev Donetsk Odessa
3
Odessa
Moscow
Novgorod
Ukraine
Russia
Russia
```

Задача 16

```
In [111]: from collections import Counter
    text = input()
    c = Counter(sorted(text.split()))
    print(*sorted(c.keys(), key=c.get, reverse=True), sep='\n')

    oh you touch my tralala
    my
    oh
    touch
    tralala
    you
```

```
In [39]: def deposit(name, sum):
              bank[name] = bank.get(name, 0) + int(sum)
         def withdraw(name, sum):
             bank[name] = bank.get(name, 0) - int(sum)
         def balance(name):
              if name not in bank:
                 print('ERROR')
              else:
                  print(bank[name])
         def income(percent):
             for k, v in bank.items():
                  if v > 0:
                      bank[k] = int(v * ((int(percent)/100) + 1))
         bank = dict()
         Zadacha = open('17_zadanie.txt')
         for line in Zadacha:
             line = line.split()
              if 'BALANCE' in line:
                 balance(line[1])
             elif 'DEPOSIT' in line:
                  deposit(line[1], line[2])
             elif 'WITHDRAW' in line:
                 withdraw(line[1], line[2])
             elif 'INCOME' in line:
                 income(line[1])
              else:
                 withdraw(line[1], line[3])
                  deposit(line[2], line[3])
         Zadacha.close()
```

```
ERROR
ERROR
100
ERROR
150
110
165
156
165
156
179
```

```
In [126]: def k(r):
               if r not in hy:
                   return 0
               else:
                   return 1 + k(hy[r])
          hy = \{\}
           n = int(input())
           for i in range(n - 1):
               child, parent = input().split()
               hy[child] = parent
           heights = {}
           for r in set(hy.keys()).union(set(hy.values())):
              heights[r] = k(r)
           for key, value in sorted(heights.items()):
               print(key, value)
          10
          AQHFYP MKFXCLZBT
```

AYKOTYQ QIUKGHWCDC IWCGKHMFM WPLHJL MJVAURUDN QIUKGHWCDC MKFXCLZBT IWCGKHMFM PUTRIPYHNQ UQNGAXNP QIUKGHWCDC WPLHJL UQNGAXNP WPLHJL YURTPJNR QIUKGHWCDC AQHFYP 3 AYKOTYQ 2 IWCGKHMFM 1 MJVAURUDN 2 MKFXCLZBT 2 PUTRIPYHNQ 2 QIUKGHWCDC 1 UQNGAXNP 1 WPLHJL 0 YURTPJNR 2

Задача 19

Задача 20

```
In [134]: s = input()
kol = 0
prev = True
for i in s:
    rez = str.isspace(i)
    if (prev and not rez):
        kol += 1
    prev = rez
print(kol)
```

f erg reg erg wfg reger df fg ergre ger g reg erg sd f fger . 17

```
In [139]: print(*map(lambda a, b: int(a != b), input().split(), input().split()))

0 0 1 1
0 1 0 1
0 1 1 0
```

Задача 22

```
In [36]: from math import factorial
n = int(input())
for i in range(n+1):
    numbers = [i]
    print(*map(factorial,numbers), end=' ')

4
1 1 2 6 24
```

Задача 23

```
3 2
2 1 2 3
```

1 2 3 2 3 2 1