

Олимпиада «Ломоносов» по информатике  
2024-2025 учебный год. Заключительный этап  
Работа участника с id заявки 1379231, логином inf25f\_110

Сводный итог по всем задачам в проверяющей системе

RunID	Time	Username	Prob	Lang	Result	Tests	Score
132	2:26:52	inf25f_110	2	python3	OK	28	100
65	1:15:37	inf25f_110	1	python3	Partial solution	28	96
N/A	N/A	inf25f_110	3	N/A	N/A	0	0
N/A	N/A	inf25f_110	4	N/A	N/A	0	0
N/A	N/A	inf25f_110	5	N/A	N/A	0	0

196 технических баллов

56 итоговых баллов

## Посылка по задаче 1

```
[1] n = int(input())
[2] m = int(input())
[3] k = 0
[4] q = 0
[5] w = 0
[6] mi = 999999999999
[7] while n > 4 or m > 4 or n == 3 or m == 3:
[8]     if n > m:
[9]         n, m = m, n
[10]    while m > n:
[11]        l = 0
[12]        d = n
[13]        while (d != m and (m > 4 or m == 3) and d != 1) or (m < 5 and m != 3 and m != d):
[14]            l += 1
[15]            if d % 2 == 0:
[16]                d //= 2
[17]            else:
[18]                d = 3 * d + 1
[19]        if d == m:
[20]            mi = min(mi, k + l)
[21]            q == 1
[22]            k += 1
[23]            if m % 2 == 0:
[24]                m //= 2
[25]            else:
[26]                m = 3 * m + 1
[27]        if n == m:
[28]            mi = min(mi, k)
[29]            q = 1
[30]            break
[31] while n != m:
[32]     w += 1
[33]     if n % 2 == 0:
[34]         n //= 2
[35]     else:
[36]         n = 3 * n + 1
[37]     if w < 5:
[38]         q = 1
[39]     else:
[40]         q = 0
[41]         break
[42] if q == 0:
[43]     print(-1)
[44] elif k != 0:
[45]     print(mi + w)
[46] else:
[47]     print(w)
```

## Посылка по задаче 2

```
[1] n = int(input())
[2] l = []
[3] for i in range(n):
[4]     a = input()
[5]     b = 0
[6]     q = -1
[7]     w = 0
[8]     j = len(a)
[9]     for g in range(len(a)):
[10]         j -= 1
[11]         if w == 0:
[12]             d = 0
[13]         else:
[14]             w = 0
[15]             q += 1
[16]             if a[j] == 'a':
[17]                 b += d * 26 ** q
[18]             elif a[j] == 'b':
[19]                 b += (1 + d) * 26 ** q
[20]             elif a[j] == 'c':
[21]                 b += (2 + d) * 26 ** q
[22]             elif a[j] == 'd':
[23]                 b += (3 + d) * 26 ** q
[24]             elif a[j] == 'e':
[25]                 b += (4 + d) * 26 ** q
[26]             elif a[j] == 'f':
[27]                 b += (5 + d) * 26 ** q
[28]             elif a[j] == 'g':
[29]                 b += (6 + d) * 26 ** q
[30]             elif a[j] == 'h':
[31]                 b += (7 + d) * 26 ** q
[32]             elif a[j] == 'i':
[33]                 b += (8 + d) * 26 ** q
[34]             elif a[j] == 'j':
[35]                 b += (9 + d) * 26 ** q
[36]             elif a[j] == 'k':
[37]                 b += (10 + d) * 26 ** q
[38]             elif a[j] == 'l':
[39]                 b += (11 + d) * 26 ** q
[40]             elif a[j] == 'm':
[41]                 b += (12 + d) * 26 ** q
[42]             elif a[j] == 'n':
[43]                 b += (13 + d) * 26 ** q
[44]             elif a[j] == 'o':
[45]                 b += (14 + d) * 26 ** q
[46]             elif a[j] == 'p':
[47]                 b += (15 + d) * 26 ** q
[48]             elif a[j] == 'q':
[49]                 b += (16 + d) * 26 ** q
[50]             elif a[j] == 'r':
[51]                 b += (17 + d) * 26 ** q
[52]             elif a[j] == 's':
[53]                 b += (18 + d) * 26 ** q
[54]             elif a[j] == 't':
[55]                 b += (19 + d) * 26 ** q
[56]             elif a[j] == 'u':
[57]                 b += (20 + d) * 26 ** q
[58]             elif a[j] == 'v':
[59]                 b += (21 + d) * 26 ** q
[60]             elif a[j] == 'w':
[61]                 b += (22 + d) * 26 ** q
[62]             elif a[j] == 'x':
[63]                 b += (23 + d) * 26 ** q
[64]             elif a[j] == 'y':
[65]                 b += (24 + d) * 26 ** q
[66]             elif a[j] == 'z':
[67]                 b += (25 + d) * 26 ** q
[68]             elif a[j] == '^':
[69]                 q -= 1
[70]                 d = 26
[71]                 w += 1
[72]             elif a[j] == '~':
[73]                 q -= 1
[74]                 d = 52
[75]                 w += 1
[76]             elif a[j] == '_':
[77]                 q -= 1
[78]                 d = 78
[79]                 w += 1
[80]     l.append(b)
[81] l2 = [0] * n
[82] for i in range(n):
[83]     l2[i] = l[i]
[84] l.sort()
[85] for i in range(n):
[86]     if l[i] != l2[i]:
[87]         print(i + 1, end=' ')
```

### **Посылка по задаче 3**

Посылка по задаче 3 не было отправлено.

#### **Посылка по задаче 4**

Посылка по задаче 4 не было отправлено.

### **Посылка по задаче 5**

Посылоч по задаче 5 не было отправлено.