

Задача 1.

```
n = int(input())
print(n - min(n // 2, 10))
```

Задача 2.

```
h, d = map(int, input().split())
k = 0
ans = 1
while h - k * d > 0:
    ans *= (h - k * d)
    k += 1
print(ans)
```

Задача 3.

```
n = int(input())
a = []
for i in range(86401):
    a.append(0)
for i in range(n):
    x, y = map(int, input().split())
    for j in range(x, y + 1):
        a[j] += 1
max_s = 0
i = 1
j = 1
while i < 86400:
    if a[i] > max_s:
        ansj = i
        max_s = a[i]
        while a[i + 1] == max_s and i + 2 < 86401:
            i += 1
        ansi = i
        if i == 86399 and a[i + 1] == max_s:
            ansi += 1
    i += 1
print(max_s)
print(ansj, ansi)
```

Задача 4.

```
s = input()
alphabet = ['а', 'б', 'в', 'г', 'д', 'е', 'ё', 'ж', 'з', 'и', 'й', 'к',
            'л', 'м', 'н', 'о', 'п', 'р', 'с', 'т', 'у', 'ф', 'х', 'ц',
            'ч', 'ш', 'щ', 'ъ', 'ы', 'ь', 'э', 'ю', 'я']
ans = True
j = 0
for i in range(len(s)):
    s1 = s[i]
    if s1.isalpha():
        if alphabet.index(s1.lower()) < j:
            print(i + 1, s1)
            exit()
        j = alphabet.index(s1.lower())
print('OK')
```

Задача 5.

```

n = int(input())
a = []
for i in range(n):
    helper = []
    for j in range(n):
        helper.append(int(input()))
    a.append(helper)
k = int(input())
for i in range(k):
    x = int(input())
    y = int(input())
    a[y][x] = max(0, a[y][x] - 8)
    # левый верхний угол
    if x == 0 and y == 0:
        a[y][x + 1] -= 4
        a[y + 1][x + 1] -= 4
        a[y + 1][x] -= 4
    # правый верхний угол
    elif x == n - 1 and y == 0:
        a[y][x - 1] -= 4
        a[y + 1][x - 1] -= 4
        a[y + 1][x] -= 4
    # левый нижний угол
    elif x == 0 and y == n - 1:
        a[y][x + 1] -= 4
        a[y - 1][x + 1] -= 4
        a[y - 1][x] -= 4
    # правый нижний угол
    elif x == n - 1 and y == n - 1:
        a[y][x - 1] -= 4
        a[y - 1][x - 1] -= 4
        a[y - 1][x] -= 4
    # левая сторона
    elif x == 0:
        a[y - 1][x] -= 4
        a[y - 1][x + 1] -= 4
        a[y][x + 1] -= 4
        a[y + 1][x + 1] -= 4
        a[y + 1][x] -= 4
    # правая сторона
    elif x == n - 1:
        a[y - 1][x] -= 4
        a[y - 1][x - 1] -= 4
        a[y][x - 1] -= 4
        a[y + 1][x - 1] -= 4
        a[y + 1][x] -= 4
    # верхняя сторона
    elif y == 0:
        a[y][x - 1] -= 4
        a[y + 1][x - 1] -= 4
        a[y + 1][x] -= 4
        a[y + 1][x + 1] -= 4
        a[y][x + 1] -= 4
    # нижняя сторона
    elif y == n - 1:
        a[y][x - 1] -= 4

```

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        a[y - 1][x - 1] -= 4
        a[y - 1][x] -= 4
        a[y - 1][x + 1] -= 4
        a[y][x + 1] -= 4
# центр
else:
    a[y][x - 1] -= 4
    a[y - 1][x - 1] -= 4
    a[y - 1][x] -= 4
    a[y - 1][x + 1] -= 4
    a[y][x + 1] -= 4
    a[y + 1][x - 1] -= 4
    a[y + 1][x] -= 4
    a[y + 1][x + 1] -= 4
for i1 in range(n):
    for i2 in range(n):
        if a[i1][i2] < 0:
            a[i1][i2] = 0
for i in a:
    print(*i)

```

Задача 6.

```

f, l, k = input().split()
a = [[0, 0, 0, 0, 0, 0, 0, 0], [0, 0, 0, 0, 0, 0, 0, 0], [0, 0, 0, 0, 0, 0, 0, 0],
      [0, 0, 0, 0, 0, 0, 0, 0], [0, 0, 0, 0, 0, 0, 0, 0], [0, 0, 0, 0, 0, 0, 0, 0],
      [0, 0, 0, 0, 0, 0, 0, 0], [0, 0, 0, 0, 0, 0, 0, 0]]
alpha = {'A': 0, 'B': 1, 'C': 2, 'D': 3, 'E': 4, 'F': 5, 'G': 6, 'H': 7}
# ферзь
y = alpha[f[0]]
x = int(f[1]) - 1
a[y][x] -= 1
for i in range(8):
    a[i][x] -= 1
    a[y][i] -= 1
    if x + i <= 7 and y + i <= 7:
        a[y + i][x + i] -= 1
    if y - i >= 0 and x - i >= 0:
        a[y - i][x - i] -= 1
    if y - i >= 0 and x + i <= 7:
        a[y - i][x + i] -= 1
    if y + i <= 7 and x - i >= 0:
        a[y + i][x - i] -= 1
# ладья
y = alpha[l[0]]
x = int(l[1]) - 1
a[y][x] -= 1
for i in range(8):
    a[i][x] -= 1
    a[y][i] -= 1
# конь
y = alpha[k[0]]
x = int(k[1]) - 1
a[y][x] -= 1
if y - 2 >= 0:
    if x + 1 <= 7:

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        a[y - 2][x + 1] -= 1
    if x - 1 >= 0:
        a[y - 2][x - 1] -= 1
if y + 2 <= 7:
    if x + 1 <= 7:
        a[y + 2][x + 1] -= 1
    if x - 1 >= 0:
        a[y + 2][x - 1] -= 1
if x - 2 >= 0:
    if y + 1 <= 7:
        a[y + 1][x - 2] -= 1
    if y - 1 >= 0:
        a[y - 1][x - 2] -= 1
if x + 2 <= 7:
    if y + 1 <= 7:
        a[y + 1][x + 2] -= 1
    if y - 1 >= 0:
        a[y - 1][x + 2] -= 1
```

```
count = 0
for i in a:
    for j in i:
        if j == 0:
            count += 1
print(count)
```