

Задача 1.

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

Задача 2.

```
h, d = map(int, input().split())
s = 1
for i in range(h - 1):
    s *= (h - i * d) if (h - i * d) > 0 else 1
print(s)
```

Задача 3.

```
n = int(input())
s = [0 for _ in range(86401)]
for i in range(n):
    a, b = map(int, input().split())
    s[a - 1] += 1
    s[b] -= 1
q = s[0]
for i in range(1, 86401):
    q += s[i]
    s[i] = q
m = max(s)
l = s.index(m)
for i in range(l + 1, 86401):
    if s[i] != m:
        r = i - 1
        break
else:
    r = 86400
print(f'{m}\n{l + 1} {r + 1}')
```

Задача 4.

```
s = input()
lst = 0
ret = []
for i in range(len(s)):
    if s[i].isalpha():
        if ord(s[i].lower()) < lst:
            print(i + 1, s[i])
            exit(0)
        else:
            lst = ord(s[i].lower())
print('OK')
```

Задача 5.

```
a = int(input())
k = []
for i in range(a):
    b = []
    for j in range(a):
        b.append(int(input()))
    k.append(b)
```

```

b = int(input())
for i in range(b):
    y = int(input())
    x = int(input())
    v = [[1, 1, 1],
          [1, 0, 1],
          [1, 1, 1]]
    k[x][y] -= 8
    if k[x][y] < 0:
        k[x][y] = 0
    if y == 0:
        for i in range(3):
            v[i][0] = 0
    elif y == a - 1:
        for i in range(3):
            v[i][2] = 0
    if x == 0:
        v[0] = [0, 0, 0]
    elif x == a - 1:
        v[2] = [0, 0, 0]
    for i in range(3):
        for j in range(3):
            if v[i][j] == 1:
                k[x + i - 1][y + j - 1] -= 4
                if k[x - 1 + i][y - 1 + j] < 0:
                    k[x - 1 + i][y - 1 + j] = 0
for i in k:
    print(*i)

```

Задача 6.

```

from pprint import pprint as p
s = [[0 for _ in range(8)] for _ in range(8)]
q, r, k = input().upper().split()
q = (ord(q[0]) - ord('A'), int(q[1]) - 1)
r = (ord(r[0]) - ord('A'), int(r[1]) - 1)
k = (ord(k[0]) - ord('A'), int(k[1]) - 1)
s[r[1]] = [1 for _ in range(8)]
for i in range(8):
    s[i][r[0]] = 1
s[q[1]] = [1 for _ in range(8)]
for i in range(8):
    s[i][q[0]] = 1

y, x = q[0] + 1, q[1] + 1
while x < 8 and y < 8:
    s[x][y] = 1
    x += 1
    y += 1

y, x = q[0] - 1, q[1] + 1
while x < 8 and y > -1:
    s[x][y] = 1
    x += 1
    y -= 1

y, x = q[0] + 1, q[1] - 1

```

```

while x > -1 and y < 8:
    s[x][y] = 1
    x -= 1
    y += 1

y, x = q[0] - 1, q[1] - 1
while x > -1 and y > -1:
    s[x][y] = 1
    x -= 1
    y -= 1

x, y = k
s[x][y] = 1
if x - 1 > -1 and y - 2 > -1:
    s[x - 1][y - 2] = 1
if x - 1 > -1 and y + 2 < 8:
    s[x - 1][y + 2] = 1
if x - 2 > -1 and y - 1 > -1:
    s[x - 2][y - 1] = 1
if x - 2 > -1 and y + 1 < 8:
    s[x - 2][y + 1] = 1
if x + 1 < 8 and y - 2 > -1:
    s[x + 1][y - 2] = 1
if x + 1 < 8 and y + 2 < 8:
    s[x + 1][y + 2] = 1
if x + 2 < 8 and y - 1 > -1:
    s[x + 2][y - 1] = 1
if x + 2 < 8 and y + 1 < 8:
    s[x + 2][y + 1] = 1

ret = 64
for i in range(8):
    for j in range(8):
        ret -= s[i][j]
print(ret)

```