

Задача 1

```
#include <iostream>
#include <algorithm>

int main() {
    int n;
    std::cin >> n;
    std::cout << std::max(n / 2, n - 10);
}
```

Задача 2

```
#include <iostream>

using namespace std;

int main() {
    int h, d;
    cin >> h >> d;
    int res = 1;
    while (h > 0) {
        res *= h;
        h -= d;
    }
    cout << res;
}
```

Задача 3

```
#include <iostream>
#include <vector>
#include <algorithm>

using namespace std;

bool comp(int &a, int &b) {
    return abs(a) < abs(b);
}

int main() {
    int n;
    cin >> n;
    vector<int> a(2 * n);
    int res = 0, res_start = 0, res_end = 0, count = 0;
    for (int i = 0; i < 2 * n; i += 2) {
        cin >> a[i];
        cin >> a[i + 1];
        a[i + 1] = -a[i + 1];
    }
    sort(a.begin(), a.end(), comp);
    for (int i = 0; i < 2 * n; ++i) {
        int t = a[i];
        if (t > 0) ++count;
        else --count;
        if (count > res) {
            res_start = abs(t);
            res_end = abs(a[i + 1]);
        }
    }
}
```

```

        res = count;
    }
}
cout << res << "\n" << res_start << " " << res_end;
}

```

Задача 4

```

s = input()
prev = -1
for i in range(len(s)):
    if 'a' <= s[i] <= 'я':
        prev = i
        break
for i in range(prev + 1, len(s)):
    if 'a' <= s[i] <= 'я':
        if s[i].lower() >= s[prev].lower():
            prev = i
        else:
            print(i + 1, s[i])
            exit()
print("OK")

```

Задача 5

```

#include <iostream>
#include <vector>

using namespace std;

int main() {
    int n;
    cin >> n;
    int field[n][n];
    for (int i = 0; i < n; ++i) {
        for (int j = 0; j < n; ++j) {
            cin >> field[i][j];
        }
    }
    int k;
    cin >> k;
    while (k--) {
        int x, y;
        cin >> x >> y;
        field[y][x] = max(field[y][x] - 4, 0);
        for (int i = y - 1; i <= y + 1; ++i) {
            for (int j = x - 1; j <= x + 1; ++j) {
                if (i >= 0 && i < n && j >= 0 && j < n) {
                    field[i][j] = max(field[i][j] - 4, 0);
                }
            }
        }
    }
    for (int i = 0; i < n; ++i) {
        for (int j = 0; j < n; ++j) {
            cout << field[i][j] << " ";
        }
        cout << "\n";
    }
}

```

```
}  
}
```

Задача 6

```
#include <iostream>
```

```
#include <string>
```

```
using namespace std;
```

```
int main() {  
    int field[8][8];  
    for (int i = 0; i < 8; ++i) {  
        for (int j = 0; j < 8; ++j) {  
            field[i][j] = 1;  
        }  
    }  
    string s;  
    int x, y;  
    cin >> s;  
    x = s[0] - 'A';  
    y = s[1] - '1';  
    for (int j = 0; j < 8; ++j) {  
        field[j][x] = 0;  
    }  
    for (int i = 0; i < 8; ++i) {  
        field[y][i] = 0;  
    }  
    int y0 = min(y + x, 7);  
    int x0 = y0 - y - x;  
    for (int j = y0, i = x0; 0 <= j && j < 8 && 0 <= i && i < 8; --j, ++i) {  
        field[j][i] = 0;  
    }  
    y0 = max(y - x, 0);  
    x0 = y0 - y + x;  
    for (int j = y0, i = x0; 0 <= j && j < 8 && 0 <= i && i < 8; ++j, ++i) {  
        field[j][i] = 0;  
    }  
    cin >> s;  
    x = s[0] - 'A';  
    y = s[1] - '1';  
    for (int j = 0; j < 8; ++j) {  
        field[j][x] = 0;  
    }  
    for (int i = 0; i < 8; ++i) {  
        field[y][i] = 0;  
    }  
    cin >> s;  
    x = s[0] - 'A';  
    y = s[1] - '1';  
    field[y][x] = 0;  
    int c_x[8] = {1, 2, 2, 1, -1, -2, -2, -1};  
    int c_y[8] = {2, 1, -1, -2, -2, -1, 1, 2};  
    for (int i, j, k = 0; k < 8; ++k) {  
        i = x + c_x[k];  
        j = y + c_y[k];  
        field[j][i] = 0;  
    }  
}
```

```
}  
int res = 0;  
for (int i = 0; i < 8; ++i) {  
    for (int j = 0; j < 8; ++j) {  
        res += field[i][j];  
    }  
}  
cout << res;  
}
```