

Задача 1.

```
#include <iostream>

using namespace std;

int main() {
    int a, k;
    cin >> a;
    if (a / 2 < 10) {
        cout << a - a / 2;
    }
    else {
        cout << a - 10;
    }
}
```

Задача 2.

```
#include <iostream>

using namespace std;

int main() {
    int h, b, k=0, s=1;
    cin >> h >> b;
    while (h - k * b > 0) {
        s *= h - k * b;
        k++;
    }
    cout << s;
}
```

Задача 3.

```
#include <iostream>
#include <vector>
using namespace std;

int main() {
    vector<int> g(86402, 0);
    int n, a, b, k = 0, s = 0, s1=0, a1 = 86401, b1 = 0, max=0;
    cin >> n;
    for (int i = 0; i < n; i++) {
        cin >> a >> b;
        for (int i = a; i <= b; i++) {
            g[i] +=1;
        }
        if (a < a1) {
            a1 = a;
        }
        if (b > b1) {
            b1 = b;
        }
    }
    for (int i = a1; i <= b1; i++) {
        if (g[i] > max) {
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        max = g[i];
    }
}
for (int i = a1; i <= 86401; i++) {
    if (g[i] == max) {
        s = i;
        break;
    }
}
for (int i = s; i <=86401; i++) {
    if (g[i] < max) {
        s1 = i-1;
        break;
    }
}
cout << max << endl;
cout << s << ' ' << s1;

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}

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Задача 5.

```

#include <iostream>

```

```

#include <vector>

```

```

using namespace std;

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int main() {
    int n, a, k, x, y;
    cin >> n;
    vector <vector<int>> g(n);
    for (int i = 0; i < n; i++) {
        for (int j = 0; j < n; j++) {
            cin >> a;
            g[i].push_back(a);
        }
    }
    cin >> k;
    for (int i = 0; i < k; i++) {
        cin >> y >> x;
        g[x][y] -= 8;
        if (x == 0 && y==0) {
            g[x][y + 1] -= 4;
            g[x + 1][y] -= 4;
            g[x + 1][y + 1] -= 4;
        }
        if (x == n-1 && y ==n-1 ) {
            g[x][y - 1] -= 4;
            g[x -1][y] -= 4;
            g[x -1][y - 1] -= 4;
        }
        if (x == n - 1 && y == 0) {
            g[x][y + 1] -= 4;
            g[x -1][y] -= 4;
            g[x + 1][y + 1] -= 4;
        }
        if (x == 0 && y ==n - 1) {
            g[x][y - 1] -= 4;

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        g[x - 1][y] -= 4;
        g[x - 1][y - 1] -= 4;
    }
    if (x == 0 && y != 0 && y != n-1) {
        g[x][y - 1] -= 4;
        g[x][y + 1] -= 4;
        g[x + 1][y] -= 4;
        g[x + 1][y - 1] -= 4;
        g[x + 1][y + 1] -= 4;
    }
    if (x == n-1 && y != 0 && y != n - 1) {
        g[x][y - 1] -= 4;
        g[x][y + 1] -= 4;
        g[x - 1][y] -= 4;
        g[x - 1][y - 1] -= 4;
        g[x - 1][y + 1] -= 4;
    }
    if (y == 0 && x != 0 && x != n-1) {
        g[x-1][y] -= 4;
        g[x+1][y] -= 4;
        g[x][y+1] -= 4;
        g[x + 1][y + 1] -= 4;
        g[x - 1][y + 1] -= 4;
    }
    if (y == n-1 && x != 0 && x != n - 1) {
        g[x - 1][y] -= 4;
        g[x + 1][y] -= 4;
        g[x][y - 1] -= 4;
        g[x + 1][y - 1] -= 4;
        g[x - 1][y - 1] -= 4;
    }
    if (y != 0 && y != n - 1 && x != 0 && x != n - 1) {
        g[x - 1][y] -= 4;
        g[x + 1][y] -= 4;
        g[x][y - 1] -= 4;
        g[x][y + 1] -= 4;
        g[x + 1][y - 1] -= 4;
        g[x - 1][y - 1] -= 4;
        g[x - 1][y + 1] -= 4;
        g[x + 1][y + 1] -= 4;
    }
}
for (int i = 0; i < n; i++) {
    for (int j = 0; j < n; j++) {
        if (g[i][j] < 0) {
            cout << 0 << ' ';
        }
        else {
            cout << g[i][j] << ' ';
        }
    }
    cout << endl;
}
}

```

Задача 6.

```

string s;
int g[8][8];
for (int i = 0; i < 8; i++) {
    for (int j = 0; j < 8; j++) {
        g[i][j] = 0;
    }
}
for (int i = 0; i < 3; i++) {
    cin >> s;
    if (*s.begin() == 'A') {
        x = 0;
    }
    if (*s.begin() == 'B') {
        x = 1;
    }
    if (*s.begin() == 'C') {
        x = 2;
    }
    if (*s.begin() == 'D') {
        x = 3;
    }
    if (*s.begin() == 'E') {
        x = 4;
    }
    if (*s.begin() == 'F') {
        x = 5;
    }
    if (*s.begin() == 'G') {
        x = 6;
    }
    if (*s.begin() == 'H') {
        x = 7;
    }
    if (*s.end() == '1'){
        y = 0;
    }
    if (*s.end() == '2') {
        y = 1;
    }
    if (*s.end() == '3') {
        y = 2;
    }
    if (*s.end() == '4') {
        y = 3;
    }
    if (*s.end() == '5') {
        y = 4;
    }
    if (*s.end() == '6') {
        y = 5;
    }
    if (*s.end() == '7') {
        y = 6;
    }
    if (*s.end() == '8') {
        y = 7;
    }
}

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    }
}
#include <iostream>
#include <vector>
#include <map>

using namespace std;

int main() {
    int n, a, b, k, x, y;
    vector < vector <int > > g;

    string s;
    int g[8][8];
    for (int i = 0; i < 8; i++) {
        for (int j = 0; j < 8; j++) {
            g[i][j] = 0;
        }
        if (i == 0) {
            a = x; b = y;
            while (a > 0) {

                g[a][b]++;
                a--;
            } a = x; b = y;
            while (a < 8) {

                g[a][b]++;
                a++;
            } a = x; b = y;
            while (b > 0) {

                g[b][b]++;
                b--;
            } a = x; b = y;
            while (b < 8) {
                g[a][b]++;
                b++;
            } a = x; b = y;
            while (a > 0 && b > 0) {
                g[a][b]++;
                a--; b--;
            }
            a = x; b = y;
            while (a > 0 && b < 8) {
                g[a][b]++;
                a--; b++;
            }
            a = x; b = y;
            while (a < 8 && b > 0) {
                g[a][b]++;
                a++; b--;
            }
            a = x; b = y;
            while (a < 8 && b < 8) {
                g[a][b]++;

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        a++; b++;
    }
}
if (i == 1) {
    a = x; b = y;
    while (a > 0) {
        g[a][b]++;
        a--;
    } a = x; b = y;
    while (a < 8) {

        g[a][b]++;
        a++;
    } a = x; b = y;
    while (b > 0) {

        g[b][b]++;
        b--;
    } a = x; b = y;
    while (b < 8) {
        g[a][b]++;
        b++;
    }
}
if (i == 2) {
    if (x = 0 && y == 7) {
        g[x - 1][y - 2]++;
        g[x - 2][y - 1]++; // вниз влево
    }
    else {
        if (x = 0 && y == 0) {
            g[x - 2][y + 1]++; // вниз вправо
            g[x - 1][y + 2]++; // вправо вниз
        }
        else {
            if (x == 7 && y == 7) {
                g[x + 2][y - 1]++; // вверх
                g[x + 1][y - 2]++; // влево
            }
            else {
                if (x == 7 && y == 0) {
                    g[x + 2][y + 1]++; //
                    g[x + 1][y + 2]++; //
                }
                else {
                    if ()
                }
            }
        }
    }
}
g[x + 1][y+2]++; // вправо вверх

```

влево

вверх

вверх вправо

вправо вверх

```
g[x - 1][y + 2]++; // вправо вниз
g[x + 1][y - 2]++; // влево вверх
g[x - 1][y - 2]++; // влево вниз
g[x + 2][y - 1]++; // вверх влево
g[x + 2][y + 1]++; // вверх вправо
g[x - 2][y - 1]++; // вниз влево
g[x - 2][y + 1]++; // вниз вправо
```

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}
```

```
}
```

```
}
```