Задача 1.

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

using namespace std;

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

Задача 2.

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

using namespace std;

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

Задача 3.

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

using namespace std;

int main()
{
	int n;
	cin >> n;
	vector <int> g(86401);
	for (int i = 0,x,y; i < n; i++)
	{
		cin >> x >> y;
		g[x] += 1;
		g[y] -= 1;
```

```
        }
        int res = 0, max = 0,l=0,r=0;
        for (int i = 0; i < a86401; i++)
        {
                res += g[i];
                if (res > max)
                {
                        l = i;
                        max = res;
                }
                if (res + abs(g[i]) == max)
                {
                        r = i;
                }
        }
        cout << max << endl;
        cout << l << " " << r;
}
```

Задача 4.

```
#include <iostream>
#include <vector>
#include <string>
#include <cwchar>
#include <windows.h>
#include <cctype>
#include <locale>

using namespace std;

int main()
{
        SetConsoleOutputCP(1251);
        SetConsoleCP(1251);
        setlocale(0, "rus");
        string a, b, res;
        int asdsa;
        a = "АБВГДЕЁЖЗИЙКЛМНОПРСТУФХЦЧШЩЪЫЬЭЮЯ";
        b = "абвгдеёжзийклмнопрстуфхцчшщъыьэюя";
        string v;
        getline(cin, v);
        for (int i = v.size() - 1; i > 0; i--)
        {
                for (int j = 0; j < a.size(); j++)
                {
                        if (v[i] == a[j] or v[i] == b[j])
                        {
                                asdsa = 1;
                                break;
                        }
                        else
                        {
                                asdsa = 0;
                        }
                }
                if (asdsa == 0)
                {
```

```
                        v.resize(v.size() - 1);
                }
                else
                {
                        break;
                }
        }
        int ai = 0, bi = 0;
        for (int i = 0; i < v.size(); i++)
        {
                for (int j = 0; j < a.size(); j++)
                {
                        if (a[j] == v[i])
                        {
                                res += v[i];
                        }
                }
                for (int j = 0; j < a.size(); j++)
                {
                        if (b[j] == v[i])
                        {
                                res += v[i];
                        }
                }
        }
        int z, f = 0, resi = 0, ans = 0;
        z = v.size() - res.size();
        while (f < a.size())
        {
                if (a[f] == res[resi] or b[f] == res[resi])
                {
                        ans++;
                        resi++;
                }
                f++;
        }
        if (ans == res.size())
        {
                cout << "OK";
        }
        else
        {
                cout << ans + z + 1 << " " << res[ans];
        }
}
```

Задача 5.

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

using namespace std;

int main()
{
        int n;
        cin >> n;
        vector <vector <int> > g(n);
```

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

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