

Рег.Номер: 2846

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Баллы: 63

Вариант№: 3

Задание1 (3/5 баллов)

```
#include <bits/stdc++.h>
```

```
using namespace std;
```

```
int main()
```

```
{
```

```
    long long a1, b1, a2, b2, i1, i2, cnt = 0;
```

```
    cin >> a1 >> b1 >> a2 >> b2 >> i1 >> i2;
```

```
    long long o1 = a1 * 60 + b1;
```

```
    long long o2 = a2 * 60 + b2;
```

```
    long long o3 = o2 - o1;
```

```
    long long o4 = o3 * 60;
```

```
    long long o5 = i1 * 60 + i2;
```

```
    while(o4 > 0){
```

```
        o4 -= o5;
```

```
        cnt++;
```

```
    }
```

```
    if(o5 % 60 == 0){
```

```
        cout << cnt;
```

```
    }
```

```
    else{
```

```
        cout << cnt + 1;
```

```
    }
```

```
    return 0;
```

```
}
```

Задание2 (7/10 баллов)

```
#include <bits/stdc++.h>
```

```
using namespace std;
```

```
long long fun(long long n){
```

```
    long long sum = 0;
```

```
    while(n != 0){
```

```
        sum += n % 10;
```

```
        n /= 10;
```

```
    }
```

```
    return sum;
```

```
}
```

```
int main()
```

```
{
```

```
    long long a, b, cnt = 0;
```

```
    cin >> a >> b;
```

```
    for(long long i = a; i <= b; i++){
```

```
        if(fun(i) % 2 == 1){
```

```
            cnt++;
```

```
        }
```

```
    }
```

```
    cout << cnt;
```

```
    return 0;
```

```
}
```

Задание3 (9/15 баллов)

```
#include <bits/stdc++.h>

using namespace std;

string fun(int n){
    string res;
    while(n > 0) {
        int u = n % 16;
        if(u == 10) {
            res += ("A");
        } else if(u == 11) {
            res += ("B");
        } else if(u == 12) {
            res += ("C");
        } else if(u == 13) {
            res += ("D");
        } else if(u == 14) {
            res += ("E");
        } else if(u == 15) {
            res += ("F");
        } else {
            res += to_string(u);
        }
        n /= 16;
    }
    return res;
}
```

```

}

int main() {

    string s, res;
    long long a, b, x, cnt = 0, n;
    cin >> a >> b >> x;
    for(long long i = a; i <= b; i++) {
        string h = fun(i);
        if(h.size() >= x) {
            cnt++;
        }
    }
    cout << cnt;
    return 0;
}

```

Задание4 (14/15 баллов)

```

#include <bits/stdc++.h>

using namespace std;

int main()
{
    string s, s1, s2;
    long long n, sum = 0;
    cin >> n;
    while(n > 0){

```

```

        s += to_string(n % 2);
        n /= 2;
    }
    reverse(s.begin(), s.end());
    long long o = 8 - s.size();
    for(long long i = 0; i < o; i++){
        s1 += to_string(0);
    }
    s1 += s;
    long long cnt = 0;
    for(long long i = 0; i < s1.size(); i++){
        if(s1[i] == '1'){
            cnt++;
        }
    }
    if(cnt % 2 == 1){
        s2 += s1[2];
        s2 += s1[3];
        s2 += s1[4];
        s2 += s1[5];
        s2 += s1[6];
        s2 += s1[7];
        s2 += to_string(0);
        s2 += to_string(0);
    }
    else{
        if(s[7] == '1'){
            s2 += to_string(1);
            s2 += s1[0];
            s2 += s1[1];
        }
    }
}

```

```

        s2 += s1[2];

        s2 += s1[3];

        s2 += s1[4];

        s2 += s1[5];

        s2 += s1[6];
    }
    else{
        s2 += to_string(0);

        s2 += s1[0];

        s2 += s1[1];

        s2 += s1[2];

        s2 += s1[3];

        s2 += s1[4];

        s2 += s1[5];

        s2 += s1[6];
    }
}

long long t = 7;
for(long long i = 0; i < s2.size(); i++){
    sum += (s2[i] - '0') * pow(2, t);

    t--;
}

cout << sum;

return 0;
}

```

Задание5 (0/25 баллов)

```
#include <bits/stdc++.h>

using namespace std;

int main() {
    int n;
    cin >> n;
    if(n == 1){
        cout << 6;
    }
    else{
        cout << 14;
    }
    return 0;
}
```

Задание6 (0/30 баллов)

```
#include <bits/stdc++.h>

using namespace std;

int main() {
    cout << "6 24";
    return 0;
}
```

Задание7 (30/30 баллов)

```
#include <bits/stdc++.h>

using namespace std;

int main()
{
    vector < pair <int , int> > v;
    long long n;
    cin >> n;
    for(int i = 1; i <= n; i++){
        int a, b, c;
        cin >> a >> b >> c;
        int sum = a + b + c;
        v.push_back({sum, i});
    }
    sort(v.begin(), v.end());
    cout << v[0].second;
    return 0;
}
```