Тур 1 Задача 1

#include <fstream>
using namespace std;

ifstream cin("input.txt");
ofstream cout("output.txt");

long long gcd(long long a, long long b)
{
        long long t;

        while(b)
        {
                t = b;
                b = a%b;
                a = t;
        }

        return a;
}

int main()
{
        long long a, b, c, d;
        long long aa, bb, g;

        cin>>a>>b>>c>>d;

        bb = b\*d;
        aa = a\*d + c\*b;

        g = gcd(aa, bb);

        aa/=g;
        bb/=g;

        if(bb==1)
        {
                cout<<aa;
        }else
        {
                cout<<aa<<" "<<bb;
        }

        return 0;
}

Тур 2 Задача 1

#include <fstream>
using namespace std;

ifstream cin("input.txt");
ofstream cout("output.txt");

long long dat[25];

int main()
{
    long long n, i, j, k, l=0;

    cin>>n;

    dat[1]=1;
    for(i=0;i<n-1;i++)
    {
        for(j=20;j>=0;j--)
        {
            dat[j+1]=dat[j];
            if(j>2&&j<20)
            {
                dat[0]+=dat[j];
            }
        }
        dat[0]=0;
    }

    for(i = 2; i<21; i++)
    {
        l+=dat[i];
    }
    cout<<l;
}

Тур 5 задача 1

#include <fstream>
using namespace std;

ifstream cin("input.txt");
ofstream cout("output.txt");

unsigned long long dat[105];

int main()
{
    long long n, i, j, k;

    cin>>n>>k;

    dat[0]=1;

    for(i=0;i<n;i++)
    {
        for(j=1;j<=k;j++)
        {
            dat[i+j] +=dat[i];
        }
    }

    cout<<dat[n];
}

Тур 5 задача 2

#include <fstream>
using namespace std;

ifstream cin("input.txt");
ofstream cout("output.txt");

class date
{
public:
        int day, month, year, weekday;
        //date(int day, int month, int year): day(day), month(month), year(year){}

        void operator +(int a)
        {
                day++;
                switch(month)
                {
                case 9: if(day>30){day = 1; month++;} break;
                case 10: if(day>31){day = 1; month++;} break;
                case 11: if(day>30){day = 1; month++;} break;
                case 12: if(day>31){day = 1; month=1; year++;} break;
                }
                weekday++;
                weekday%=8;
                if(!weekday){weekday++;}
        }

        int operator <(date a)
        {
                if(month<a.month)
                {
                        return 1;
                }else if(month==a.month)
                {
                        if(day<a.day)
                        {
                                return 1;
                        }else
                        {
                                return 0;
                        }
                }else
                {
                        return 0;
                }
        }
};

int week[8];

int main()
{
        int i, j, n;
        date start, end, sWeekend, eWeekend;
        cin>>start.day>>start.month>>start.year;
        cin>>end.day>>end.month>>end.year;
        cin>>n;
        for(i = 0;i<n;i++)
        {
                cin>>j;
                week[j]=1;
        }
        cin>>start.weekday;
        cin>>sWeekend.day>>sWeekend.month>>sWeekend.year;
        cin>>eWeekend.day>>eWeekend.month>>eWeekend.year;

        while(start<end)
        {
                if(week[start.weekday] && (start<sWeekend || eWeekend<start))
                {
                        cout<<start.day<<" "<<start.month<<" "<<start.year<<"\n";
                }
                start+n;
        }
        if(week[start.weekday] && (start<sWeekend || eWeekend<start))
        {
                cout<<start.day<<" "<<start.month<<" "<<start.year<<"\n";
        }
}