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";  
        }  
}