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// 11 grade
#include <iostream>
#include <fstream>
using namespace std;

int a[100], v[9]= {7,12,17,22,27,35,40,45,50};

ifstream fin("in.in");
ofstream fout("output.out");
void minn1(int &x, int &y, int &z)
{
    if(y<x)
        swap(x,y);
    if(z<x)
        swap(x,z);
}
int prim(int x)
{
    if(x<2)
        return 0;
    if(x==2)
        return 1;
    if(x%2==0)
        return 0;
    for(int i=3; i*i<=x; i++)
        if(x%i==0)
            return 0;
    return 1;
}
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int pp(int x)
{
    for(int i=3; i<=7; i++)
        if(x/i==i and x%i==0)
            return 1;
    return 0;
}

int ov(int x,int y)
{
    for(int i=0; i<9; i++)
        if(x<v[i] and y>v[i])
            return 1;
    return 0;
}

int main()
{
    int n,m,i,j,w,minn,m1,m2,m3,x,y,r,s;
    for(w=1; w<=5; w++)
    {
        for(i=1; i<=3; i++)
        {
            fin>>x;
            a[x]=1;
        }
        fin>>m1>>m2>>m3;

        minn1(m1,m2,m3);

        a[m1]=a[m2]=a[m3]=1;
        fin>>r;
        for(i=1; i<=r; i++)

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{

    fin>>x;
    if(a[m1+x]!=1)
    {
        if(m1+x<=52)
        {
            if(prim(m1+x)==1)
            {
                a[m1]=0;
                m1=m1+x;
                s=0;
                for(j=m1+1; j<=m1+6; j++)
                {
                    if(a[j]==0)
                        s++;
                    else
                        break;
                }
                m1=m1+s;
                a[m1]=1;
            }
            else if(pp(m1+x)==1)
            {
                a[m1]=0;
                m1=m1+x;
                s=0;
                for(j=m1-1; j>=m1-6; j--)
                {
                    if(a[j]==0)
                        s++;
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        else
            break;
    }
    m1=m1-s;
    a[m1]=1;
}
else if(ov(m1,m1+x)==1)
{
    s=0;
    for(j=m1+1; j<=m1+x; j++)
    {
        if(a[j]==0 and j%x==0)
            s=j;
    }
    if(s!=0)
    {
        a[m1]=0;
        m1=s;
        a[m1]=1;
    }
}
else
{
    a[m1]=0;
    m1=m1+x;
    a[m1]=1;
}
}
}
```

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    minn1(m1,m2,m3);
}
if(m2>m3)
    swap(m2,m3);
if(m1==52 and m2==52 and m3==52)
    fout<<"GAME OVER";
else
{
    if(m1<52)
        fout<<m1<<" ";
    if(m2<52)
        fout<<m2<<" ";
    if(m3<52)
        fout<<m3<<" ";
}
fout<<"\n";
for(i=1; i<=52; i++)
    a[i]=0;
}
return 0;
}
```