

```

#include <fstream>
using namespace std;

ifstream fin("prime.in");
ofstream fout("prime.out");

char x[1000000];
int v[1000000],nr;
int n,a;

int main()
{
    int i,j;
    x[0]=1;
    x[1]=1;
    for(i=2;i*i<=1000000;i++)
        if(x[i]==0)
            for(j=2;j*i<=1000000;j++)
                x[i*j]=1;
    fin>>n;
    for(i=1;i<=n;i++)
    {
        fin>>a;
        if(x[a]==0)
            v[++nr]=a;
        else
        {
            while(x[a]==1 && a>0)
                a/=10;
            if(x[a]==0)
                v[++nr]=a;
        }
    }
    fout<<nr<<"\n";
    for(i=1;i<=nr;i++)
        fout<<v[i]<<" ";
    fout<<"\n";
    return 0;
}

```