**#include<stdio.h>**

**int main(void) {**

**int i,j,n,temp,count;**

**printf("enter how many numbers you want to enter\n");**

**scanf("%d",&n);**

**int a[n];**

**printf("enter the numbers\n");**

**for(i=0;i<n;i++)**

**scanf("%d",&a[i]);**

**for(i=0;i<n;i++)**

**for(j=i+1;j<n;j++)**

**{**

**if(a[j]<a[i])**

**{**

**temp=a[j];**

**a[j]=a[i];**

**a[i]=temp;**

**}**

**}**

**for(i=a[0];i>=1;i--)**

**{**

**count=0;**

**for(j=0;j<n;j++)**

**{**

**if(a[j]%i==0)**

**count++;**

**}**

**if(count==n)**

**{**

**printf("GCF is %d\n",i);**

**break;**

**}**

**}**

**return 0;**

**}**