//MINMAX PROBLEM

#include<stdio.h>

void minmax(int a[],int low,int high,int \*min,int \*max)

{

int min1,max1,mid;

if(low==high)

\*min=\*max=a[low];

else if(low==high-1)

{

if(a[low]>a[high])

{

\*min=a[high];

\*max=a[low];

}

else

{

\*min=a[low];

\*max=a[high];

}

}

else

{

mid=(low+high)/2;

minmax(a,low,mid,min,max);

minmax(a,mid+1,high,&min1,&max1);

if(\*max<max1)

\*max=max1;

if(\*min>min1)

\*min=min1;

}

}

void main()

{

int n,min,max;

printf("Enter the size of the array");

scanf("%d",&n);

int a[n],i;

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

{

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

}

minmax(a,0,n-1,&min,&max);

printf("The max number is %d",max);

printf("The min number is %d",min);

}