#include<stdio.h>

int maximum(int a[],int low,int high)

{

int max1,max2,middle;

if(low==high)

return a[low];

else

{

middle=(low+high)/2;

max1=maximum(a,low,middle);

max2=maximum(a,middle+1,high);

if(max1>max2)

return max1;

else

return max2;

}

}

void main()

{

int n,i;

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

scanf("%d",&n);

int a[n];

printf("Enter the elements\n");

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

{

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

}

printf("The maximum value in the array is %d",maximum(a,0,n-1));

}