#include<stdio.h>

void main()

{

int n;

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

scanf("%d", &n);

int arr[n],i,k,ctr=0,pos;

printf("\nEnter the elements of the array in ascending order : \n");

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

{

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

}

printf("\nEnter the element to be searched : ");

scanf("%d", &k);

int l=0,h=n-1,mid;

while(l<=h)

{

mid=(l+h)/2;

if(arr[mid]==k)

{

ctr=1;

pos=mid+1;

break;

}

else if(arr[mid]<k)

l=mid+1;

else

h=mid-1;

}

if(ctr==0)

printf("The element %d not found", k);

else

printf("The element %d was found at position %d", k, pos);

}