#include<stdio.h>

#include<conio.h>

int n,array[10],i,j,low,high,mid,key;

void main(){

printf("\*\*\*\*\*\*This is the Binary Search\*\*\*\*\*\*\*\*\n");

printf("Enter the number of Element in array:");

scanf("%d",&n);

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

printf("Enter the element %d :",i);

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

}

printf("Enter the element you want to find:");

scanf("%d",&key);

low=0;

high=n;

mid=0;

while(low<=high)

{

mid = (high+low)/2;

if( array[mid]==key){

printf("Element is found at %d",mid);

break;

}

else if(array[mid]<key){

low=mid+1;

}

else

{

high=mid-1;

}

}

}