#include<stdio.h>

int bin\_search(int a[],int n,int key)

{

int first,last,mid;

first=0;

last=n-1;

while(first<=last)

{

mid=(first+last)/2;

if(a[mid]==key)

return mid+1;

else if(a[mid]<key)

first=mid+1;

else if(a[mid]>key)

last=mid-1;

}

return 0;

}

int main()

{

int n;

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

scanf("%d",&n);

int a[n],i,key,pos;

printf("Enter the elements of arrray : ");

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

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

printf("Enter the key number : ");

scanf("%d",&key);

pos=bin\_search(a,n,key);

if(pos>=1)

printf("The element is found at %d positon",pos);

else

printf("The element is not found.");

}

