//C program for binary search algorithm

#include<stdio.h>

int main()

{

int arr[50],i,n,x,flag=0,first,last,mid;

printf("Enter size of array:");

scanf("%d",&n);

printf("\nEnter array element(ascending order)\n");

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

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

printf("\nEnter the element to search:");

scanf("%d",&x);

first=0;

last=n-1;

while(first<=last)

{

mid=(first+last)/2;

if(x==arr[mid]){

flag=1;

break;

}

else

if(x>arr[mid])

first=mid+1;

else

last=mid-1;

}

if(flag==1)

printf("\nElement found at position %d",mid+1);

else

printf("\nElement not found");

return 0;

}