//BINARY SEARCH

//20UET009

#include<stdio.h>

int main()

{

int a[10];

int i,j,n,l,h,mid,element;

printf("enter size of array:\n");

scanf("%d",&n);

printf("enter array elements:\n");

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

{

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

}

printf("\nenter search element:\n");

scanf("%d",&element);

l=0;

h=n-1;

while(l<=h)

{

mid=(l+h)/2;

if(a[mid]==element)

{

printf("element found at index %d\n",mid);

break;

}

if(a[mid]<element)

{

l=m+1;

}

else

{

h=mid-1;

}

}

return 0;

}

