#include <iostream>

using namespace std;

bool binary\_search(int arr[],int n,int item){

int s = 0;

int e = n-1;

int mid;

while(s<=e){

mid = (s+e)/2;

if(arr[mid]==item){

return 1;

}

else if(arr[mid]>item){

e=mid-1;

}

else{

s=mid+1;

}

}

return 0;

}

int main() {

int n;

cout<<"Enter the no of arrays you want:";

cin>>n;

int \*array = new int[n];

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

cout<<"Enter the value of array["<<i<<"]:";

cin>>array[i];

}

cout<<"Enter the no that you want to search:";

int item;

cin>>item;

bool a = binary\_search(array,n,item);

if(a==1){

cout<<"The no is present in the array.";

}

else{

cout<<"The no is not present in the array.";

}

}