#include<iostream>

#include<conio.h>

using namespace std;

void main()

{

int list[10];

int first , last ;

bool found = false;

int mid;

int item;

cout<<"Enter 10 elements of array: "<<endl;

for(int i = 0 ; i < 10 ; i++)

{

cin>>list[i];

}

first = 0;

last = 19;

cout<<"Enter the item you want to search: ";

cin>>item;

cout<<"Binary Search:"<<endl;

while (first <= last && !found)

{

mid = (first + last) / 2;

if (list[mid] == item)

found = true;

else if (list[mid] > item)

last = mid - 1;

else

first = mid + 1;

}

if (found)

cout<<"The item is present at the index: "<<mid;

else

cout<<"The item is not in the list"<<endl;

\_getch();

}