**//BINARY SEARCH**

**#include<iostream>**

**using namespace std;**

**int BinarySearch(int arr[],int n,int key){**

**int start=0,end=n-1,mid;**

**while(start<=end){**

**//Mid ko find karo from this formula**

**mid=(start+end)/2;**

**if(arr[mid]==key)**

**return mid;**

**else if(arr[mid]<key)**

**start=mid+1;**

**else**

**end=mid-1;**

**}**

**//if element is not present**

**return -1;**

**}**

**int main(){**

**int arr[1000];**

**int n;**

**cout<<"Enter the number of element in array";**

**cin>>n;**

**cout<<"Enter the elements:";**

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

**cin>>arr[i];**

**int key;**

**cout<<"Enter the key:";**

**cin>>key;**

**cout<<BinarySearch(arr,n,key);**

**return 0;**

**}**