

```
// search an element using Binary Search.cpp : This file
contains the 'main' function. Program execution begins and
ends there.
//
```

```
#include <iostream>
using namespace std;
```

```
int binarySearch(int arr[], int low, int high, int key)
{
    if (high < low)
        return -1;
    int mid = (low + high) / 2;
    if (arr[mid] == key)
        return mid;
    if (key < arr[mid])
        return binarySearch(arr, low, mid - 1, key);
    return binarySearch(arr, mid + 1, high, key);
}
```

```
int main()
{
    int array[5] = { 10,40,50 };
    int size = sizeof(array) / sizeof(array[0]);
    int pos = binarySearch(array, 0, size - 1, 80);
    if (pos == -1)
        cout << "element not found" << endl;
    else
        cout << "element found at " << pos << endl;
}
```