1

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

int BinarySearch(int arr[], int num, int search){
    int start = 0;
    int end = num-1;

    while(start < end){
        int mid = start + ((end-start)/2);
    if (arr[mid] == search){
        return mid;
    } else if(arr[mid] > search){
        end = mid -1;
    } else{
        start = mid+1;
    }
   }
    return -1;
}

int main(){
int arr[] = {20, 57, 88, 55, 18, 9, 72, 27, 58};
int search = 72;
int num = sizeof(arr)/sizeof(arr[0]);
printf("The number was found at index %d\n", BinarySearch(arr, num, search));
}
```

```
ishadp@pop-os:~/Documents/Code/Practical-DAA$ g++ 1.cpp
ishadp@pop-os:~/Documents/Code/Practical-DAA$ ./a.out
The number was found at index 6
```