Binary Search:

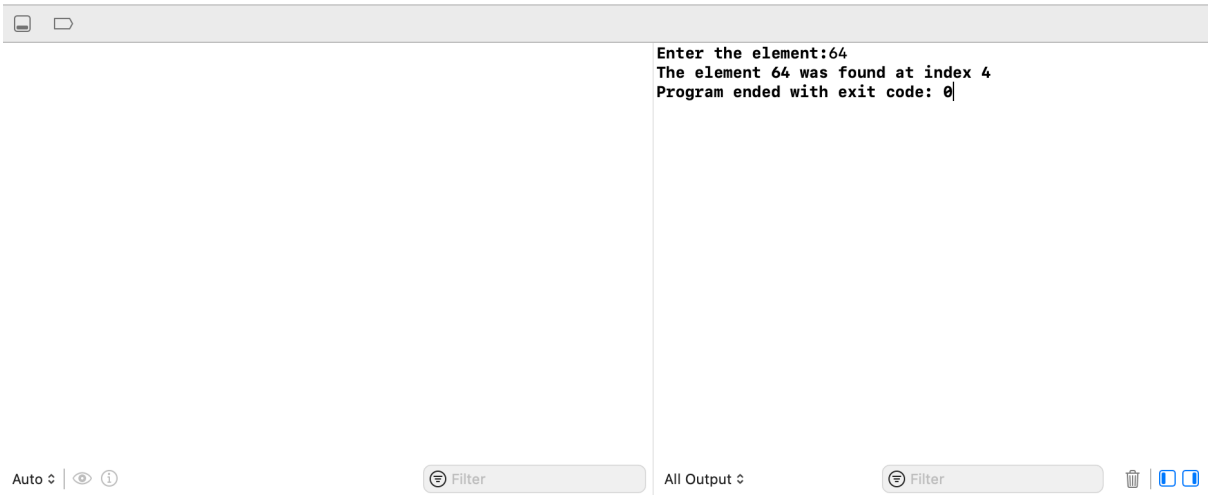
```c
#include<stdio.h>

int binarySearch(int arr[], int size, int element){
    int low, mid, high;
    low = 0;
    high = size-1;
    // Keep searching until low <= high
    while(low<=high){
        mid = (low + high)/2;
        if(arr[mid] == element){
            return mid;
        }
        if(arr[mid]<element){
            low = mid+1;
        }
        else{
            high = mid -1;
        }
    }
    return -1;

int main(){

    int arr[] = {1,3,5,56,64,73,123,225,444};
    int size = sizeof(arr)/sizeof(int);
    int element;
    printf("Enter the element:");
    scanf("%d",&element);
    int searchIndex = binarySearch(arr, size, element);
    printf("The element %d was found at index %d \n", element,
searchIndex);
    return 0;
}
```

Output:


Enter the element:64
The element 64 was found at index 4
Program ended with exit code: 0
Auto
Filter
All Output
Filter

Linear Search:

```c
#include<stdio.h>

int linearSearch(int arr[], int size, int element){
    for (int i = 0; i < size; i++)
    {
        if(arr[i]==element){
            return i;
        }
    }
    return -1;
}


int main(){
     int arr[] = {1,3,5,56,4,3,23,5,4,54634,56,34};
     int size = sizeof(arr)/sizeof(int);
       int element;
       printf("Enter the element:");
       scanf("%d",&element);
       int searchIndex = linearSearch(arr, size, element);
       printf("The element %d was found at index %d \n",
element, searchIndex);
    return 0;
}
```

Output: