```
#include <stdio.h>
#include <stdlib.h>
int binarySearch(int array[], int size, int target) {
   int left = 0;
  int right = size - 1;
  while (left <= right) {
     int mid = left + (right - left) / 2;
     if (array[mid] == target) {
        return mid; // Found the element at index mid
     }
     if (array[mid] < target) {</pre>
        left = mid + 1; // Search the right half
        right = mid - 1; // Search the left half
     }
  return -1; // Element not found
int main(int argc, char *argv[]) {
  if (argc < 2) {
     printf("Usage: %s <array elements>\n", argv[0]);
     return 1;
  }
  int array[argc - 1];
  for (int i = 1; i < argc; i++) {
     array[i - 1] = atoi(argv[i]);
  }
  int size = argc - 1;
  // Sort the array (you can use any sorting algorithm)
  for (int i = 0; i < size - 1; i++) {
     for (int j = 0; j < size - i - 1; j++) {
        if (array[j] > array[j + 1]) {
           int temp = array[j];
           array[j] = array[j + 1];
           array[j + 1] = temp;
        }
     }
  }
  printf("Sorted array: ");
  for (int i = 0; i < size; i++) {
     printf("%d ", array[i]);
  printf("\n");
```

```
int search;
  printf("Enter the search term: ");
  scanf("%d", &search);
  int result = binarySearch(array, size, search);
  if (result != -1) {
    printf("Search term %d found at index %d\n", search, result);
  } else {
    printf("Search term %d not found\n", search);
  return 0;
}
=====OUTPUT=====
   —(ghost kali)-[~/OS]
  -$ ./a.out 10 54 654 74 3
Sorted array: 3 10 54 74 654
Enter the search term: 3
Search term 3 found at index 0
(ghost kali)-[~/OS]
```