```
#include <stdio.h>
int binarySearch(int arr[], int size, int key) {
  int low = 0, high = size - 1;
  while (low <= high) {
     int mid = (low + high) / 2;
     if (arr[mid] == key)
        return mid; // Element found
     else if (arr[mid] < key)
       low = mid + 1;
     else
       high = mid - 1;
  }
  return -1; // Element not found
}
int main() {
  int arr[100], n, i, key, result;
  printf("Enter the number of elements: ");
  scanf("%d", &n);
  printf("Enter %d elements in sorted order:\n", n);
  for (i = 0; i < n; i++)
     scanf("%d", &arr[i]);
  printf("Enter the number to search: ");
  scanf("%d", &key);
  result = binarySearch(arr, n, key);
  if (result == -1)
     printf("Element not found in the array.\n");
  else
     printf("Element found at position %d (index %d).\n", result + 1, result);
  return 0;
}
```