```c
#include <stdio.h>

int main() {
    int arr[100], n, key;
    int low, high, mid, found = 0;

    // Input array size
    printf("Enter number of elements: ");
    scanf("%d", &n);

    // Input sorted array elements
    printf("Enter elements in sorted order:\n");
    for (int i = 0; i < n; i++) {
        scanf("%d", &arr[i]);
    }

    // Input element to search
    printf("Enter element to search: ");
    scanf("%d", &key);

    // Binary Search
    low = 0;
    high = n - 1;

    while (low <= high) {
        mid = (low + high) / 2;
```

```c
    scanf("%d", &key);

    // Binary Search
    low = 0;
    high = n - 1;

    while (low <= high) {
        mid = (low + high) / 2;

        if (arr[mid] == key) {
            printf("Element %d found at position %d.\n", key, mid + 1);
            found = 1;
            break;
        } else if (arr[mid] < key) {
            low = mid + 1;
        } else {
            high = mid - 1;
        }
    }

    if (!found)
        printf("Element %d not found in the array.\n", key);

    return 0;
}
```

```
Enter number of elements:
5
Enter elements in sorted order:
2
4
6
8
10
Enter element to search: 4
Element 4 found at position 2.
```