

```
#include <stdio.h>

int main() {

    int arr[50], n, key, i, low, high, mid, found = 0;

    printf("Enter number of elements (sorted): ");

    scanf("%d", &n);

    printf("Enter sorted elements: ");

    for (i = 0; i < n; i++) scanf("%d", &arr[i]);

    printf("Enter element to search: ");

    scanf("%d", &key);

    low = 0; high = n - 1;

    while (low <= high) {

        mid = (low + high) / 2;

        if (arr[mid] == key) {

            printf("Element found at position %d\n", mid);

            found = 1;

            break;

        } else if (arr[mid] < key)

            low = mid + 1;

        else

            high = mid - 1;

    }

    if (!found) printf("Element not found.\n");

    return 0;

}
```

Output:

### Output

```
Enter number of elements (sorted): 5
Enter sorted elements: 1 2 3 4 5
Enter element to search: 2
Element found at position 1
```

```
=== Code Execution Successful ===
```