main.c

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```c
#include <stdio.h>
int main() {
    int a[20], i, n, k, low, high, mid, flag = 0;
    printf("Enter number of elements: ");
    scanf("%d", &n);
    printf("Enter elements in sorted order:\n");
    for (i = 0; i < n; i++) {
        scanf("%d", &a[i]);
    }
    printf("Enter search element: ");
    scanf("%d", &k);
    low = 0;
    high = n - 1;
    while (low <= high) {
        mid = (low + high) / 2;
        if (a[mid] == k) {
            flag = 1;
            break;
        } else if (k < a[mid]) {
            high = mid - 1;
        } else {
            low = mid + 1;
        }
    }
    if (flag) {
        printf("%d found at position %d\n", k, mid + 1);
```

Output Clear

```
Enter number of elements: 5
Enter elements in sorted order:
10 20 30 40 50
Enter search element: 20
20 found at position 2


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

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```
    for (i = 0; i < n; i++) {
        scanf("%d", &a[i]);
    }
    printf("Enter search element: ");
    scanf("%d", &k);
    low = 0;
    high = n - 1;
    while (low <= high) {
        mid = (low + high) / 2;
        if (a[mid] == k) {
            flag = 1;
            break;
        } else if (k < a[mid]) {
            high = mid - 1;
        } else {
            low = mid + 1;
        }
    }
    if (flag) {
        printf("%d found at position %d\n", k, mid + 1);
    } else {
        printf("Not present\n");
    }
    return 0;
}

```

Output

Clear

```
Enter number of elements: 5
Enter elements in sorted order:
10 20 30 40 50
Enter search element: 20
20 found at position 2


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