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#include <stdio.h>

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

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

    printf("Enter %d sorted integers:\n", n);
    for (int i = 0; i < n; i++) {
        scanf("%d", &arr[i]);
    }

    printf("Enter number to search: ");
    scanf("%d", &key);

    low = 0;
    high = n - 1;

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

        if (arr[mid] == key) {
            printf("Found at position %d (index %d)\n", mid + 1, mid);
            return 0;
        } else if (arr[mid] < key) {
            low = mid + 1;
        } else {
            high = mid - 1;
        }
    }

    printf("Not found in the array.\n");
    return 0;
}
```