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#include <stdio.h>

// Function to perform linear search
int linearSearch(int arr[], int n, int key) {
    for (int i = 0; i < n; i++) {
        if (arr[i] == key) {
            return i; // Return the index of the key element
        }
    }
    return -1; // Return -1 if the key element is not found
}

int main() {
    int n, key;

    // Get the number of elements from the user
    printf("Enter the number of elements: ");
    scanf("%d", &n);

    int arr[n];

    // Get the elements from the user
    printf("Enter %d elements: ", n);
    for (int i = 0; i < n; i++) {
        scanf("%d", &arr[i]);
    }

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

    // Perform linear search
    int result = linearSearch(arr, n, key);

    // Display the result
    if (result == -1) {
        printf("Element not found in the array\n");
    } else {
        printf("Element found at index %d\n", result);
    }

    return 0;
}

```