#include <stdio.h>

int main() {

int arr[100], n, key, found = 0;

// Input: size of array

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

scanf("%d", &n);

// Input: array elements

printf("Enter %d elements:\n", n);

for (int i = 0; i < n; i++) {

scanf("%d", &arr[i]);

}

// Input: number to search

printf("Enter the number to search: ");

scanf("%d", &key);

// Linear Search

for (int i = 0; i < n; i++) {

if (arr[i] == key) {

printf("Number %d found at position %d (index %d).\n", key, i + 1, i);

found = 1;

break;

}

}

if (!found) {

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

}

return 0;

}