#include <iostream>

int linearSearch(int arr[], int size, int target) {

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

if (arr[i] == target) {

return i; // Return the index where the target is found

}

}

return -1; // Return -1 if target is not found

}

int main() {

int arr[] = {12, 45, 6, 78, 23, 56, 89};

int size = sizeof(arr) / sizeof(arr[0]);

int target = 23;

int index = linearSearch(arr, size, target);

if (index != -1) {

std::cout << "Target found at index: " << index << std::endl;

} else {

std::cout << "Target not found." << std::endl;

}

return 0;

}