```
#include <stdio.h>
int linearSearch(int arr[], int n, int key) {
  for (int i = 0; i < n; i++) {
     if (arr[i] == key) {
        return i; // Return the index if the key is found
  return -1; // Return -1 if the key is not found
int main() {
  int arr[] = {10, 20, 30, 40, 50};
  int n = sizeof(arr) / sizeof(arr[0]);
  int key = 30;
  int result = linearSearch(arr, n, key);
  if (result != -1) {
     printf("Element found at index: %d", result);
  } else {
     printf("Element not found");
  return 0;
```