linear-search-algorithm.cpp

```
//write the linear search algorithm.

#include <bits/stdc++.h>
using namespace std;

int linearsearch(int arr[], int n, int len);

int main(){
   int arr[] = {10,11,12,14,19,20,23,28,30};
   cout << "The element 19 is found at the index of " << linearsearch(arr,19,9);
   return 0;
}

int linearsearch(int a[], int n, int len) {
   // code here
   while(len){
      if(a[len-1] == n){
         return len-1;
      }
      len--;
   }
   return -1;
}
```

OUTPUT

```
PS S:\WorkSpace\CollegeWork\DataStructure> g++ '.\linear-search-algorithm.cpp'
PS S:\WorkSpace\CollegeWork\DataStructure> ./a
The element 19 is found at the index of 4
PS S:\WorkSpace\CollegeWork\DataStructure>
```