

linear-search-algorithm.cpp

```
//write the linear search algorithm.
#include <iostream>
using namespace std;

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

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;
}
```

OUTPUT

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