**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>