eclipse-workspace - H34086149_hw13_1/src/H34086149_hw13_1.cpp - Eclipse IDE

File Edit Source Refactor Navigate Search Project Run Window Help

Run | H34086149_hw13_1.exe | Quick Access

test1.cpp | H34086149_hw13_1.cpp | H34086149_hw13_2.cpp | H34086149_hw13_challenge1.cpp

```
1  //============================================================================
2  // Name        : H34086149_hw13_1.cpp
3  // Author      : mr.NTD
4  // Version     :
5  // Copyright   : Your copyright notice
6  // Description : Hello World in C++, Ansi-style
7  //============================================================================
8
9  #include <iostream>
10 using namespace std;
11
12 double data[12][2];
13 void getData()
14 {
15     for(int i = 0; i < 12; i++)
16     {
17         cout << "Please input the highest temperature of " << i + 1 << " month\n";
18         cin >> data[i][0];
19         cout << "Please input the lowest temperature of " << i + 1 << " month\n";
20         cin >> data[i][1];
21     }
22 }
23 double averageHigh()
24 {
25     double sum = 0.0;
26     for(int i = 0; i < 12; i++)
27         sum += data[i][0];
28     return sum / 12.0;
29 }
30 double averageLow()
31 {
```

Problems | Tasks | Properties | Console

<terminated> (exit value: 0) H34086149_hw13_1.exe [C/C++ Application] C:\Users\user\eclipse-workspace\H34086149_hw13_1\Debug\H34086149_hw13_1.exe (2019/12/16 下午1:23)

```
Please input the highest temperature of 12 month
Please input the lowest temperature of 12 month
averageHigh = 30.5
averageLow = 14.5
The index of the highest month = 11
The index of the lowest month = 11
```

Writable | Smart Insert | 16 : 6

eclipse-workspace - H34086149_hw13_2/src/H34086149_hw13_2.cpp - Eclipse IDE

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Run | H34086149_hw13_2.exe | Quick Access

test1.cpp | H34086149_hw13_1.cpp | H34086149_hw13_2.cpp | H34086149_hw13_challenge1.cpp

```
10 #define arraySize 100
11 using namespace std;
12
13 unsigned int linearSearch(const int [], const int, const unsigned int);
14
15 int main()
16 {
17     int arr[arraySize];
18     int searchKey;
19
20     for(int i = 0; i < arraySize; i++)
21         arr[i] = (i << 1);
22
23     cin >> searchKey;
24     const int element = linearSearch(arr, searchKey, 0);
25     if(element != -1)
26         cout << "Found value in element " << element << '\n';
27     else
28         cout << "Value not found\n";
29     return 0;
30 }
31
32 unsigned int linearSearch(const int arr[],const int key, const unsigned int index)
33 {
34     if(index >= arraySize)
35         return -1;
36     if(arr[index] == key)
37         return index;
38     return linearSearch(arr, key, index + 1);
39 }
40
```

Problems | Tasks | Properties | Console

<terminated> (exit value: 0) H34086149_hw13_2.exe [C/C++ Application] C:\Users\user\eclipse-workspace\H34086149_hw13_2\Debug\H34086149_hw13_2.exe (2019/12/16 下午1:25)

```
20
Found value in element 10
```

eclipse-workspace - H34086149_hw13_challenge1/src/H34086149_hw13_challenge1.cpp - Eclipse IDE

File Edit Source Refactor Navigate Search Project Run Window Help

Run | H34086149_hw13_challer | Quick Access

test1.cpp | H34086149_hw13_1.cpp | H34086149_hw13_2.cpp | H34086149_hw13_challenge1.cpp

```
1  //============================================================================
2  // Name        : H34086149_hw13_challenge1.cpp
3  // Author      : mr.NTD
4  // Version     :
5  // Copyright   : Your copyright notice
6  // Description : Hello World in C++, Ansi-style
7  //============================================================================
8
9  #include <bits/stdc++.h>
10 using namespace std;
11
12 bool f(const string &str, const int head, const int tail)
13 {
14     if(str[head] != str[tail])
15         return false;
16     if(head >= tail)
17         return true;
18     return f(str, head + 1, tail - 1);
19 }
20 int main()
21 {
22     string str;
23     cin >> str;
24     if( f(str, 0, str.size()-1) )
25         cout << "The string is a palindrome\n";
26     else
27         cout << "The string is not a palindrome\n";
28     return 0;
29 }
30
```

Problems | Tasks | Properties | Console

<terminated> (exit value: 0) H34086149_hw13_challenge1.exe [C/C++ Application] C:\Users\user\eclipse-workspace\H34086149_hw13_challenge1\Debug\H34086149_hw13_challenge1.exe (2019/12/16 下午1:25)

```
radar
The string is a palindrome
```