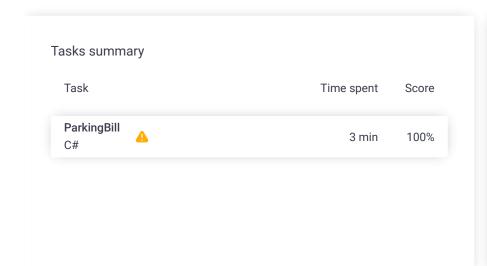
Codility_

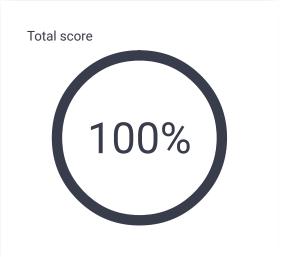
CodeCheck Report: trainingYVF9DM-UET

Test Name:

Check out Codility training tasks

Summary Timeline 😩 Al Assistant Transcript





Tasks Details

1. ParkingBill

Lielliellialy

Given two strings representing times of entry and exit from a car parking lot, find the cost of the ticket according to the given billing rules.

Task Score

Correctness

100%

Performance

100% Not assessed

Task description

You parked your car in a parking lot and want to compute the total cost of the ticket. The billing rules are as follows:

- The entrance fee of the car parking lot is 2;
- The first full or partial hour costs 3;
- Each successive full or partial hour (after the first) costs 4.

You entered the car parking lot at time E and left at time L. In this task, times are represented as strings in the format "HH:MM" (where "HH" is a two-digit number between 0 and 23, which stands for hours, and "MM" is a two-digit number between 0 and 59, which stands for minutes).

Write a function:

Solution

Programming language used:	C#			
Total time used:	3 minutes	•		
Effective time used:	3 minutes	•		
Notes:	not defined yet			
Task timeline		9		

```
class Solution { public int solution(string E,
string L); }
```

that, given strings E and L specifying points in time in the format "HH:MM", returns the total cost of the parking bill from your entry at time E to your exit at time L. You can assume that E describes a time before L on the same day.

For example, given "10:00" and "13:21" your function should return 17, because the entrance fee equals 2, the first hour costs 3 and there are two more full hours and part of a further hour, so the total cost is 2+3+(3*4)=17. Given "09:42" and "11:42" your function should return 9, because the entrance fee equals 2, the first hour costs 3 and the second hour costs 4, so the total cost is 2+3+4=9.

Assume that:

- strings E and L follow the format "HH:MM" strictly;
- string E describes a time before L on the same day.

In your solution, focus on **correctness**. The performance of your solution will not be the focus of the assessment.

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02:12:18 02:14:59

```
Code: 02:14:59 UTC, cs, final, show code in pop-up score: 100
```

```
1
     using System;
2
     // you can also use other imports, for example:
3
     // using System.Collections.Generic;
     // you can write to stdout for debugging purposes,
5
     // Console.WriteLine("this is a debug message");
6
7
8
     class Solution {
9
         public int solution(string E, string L) {
10
             // Implement your solution here
11
             const int ENTRY_FEE = 2;
             const int FIRST_HOUR_FEE = 3;
12
13
             const int FOLLOWING_HOUR_FEE = 4;
14
15
             DateTime startTime = new DateTime();
16
             DateTime endTime = new DateTime();
17
             startTime = DateTime.ParseExact(E, "H:m", n
             endTime = DateTime.ParseExact(L, "H:m", nul
18
             int parkingFee = ENTRY_FEE + FIRST_HOUR_FEE
19
20
             var timeDifference = endTime - startTime;
21
             parkingFee += timeDifference.Hours * FOLLOW
22
             if(timeDifference.Minutes == 0)
23
24
25
                 // It's the edge case when there is a r
26
                 parkingFee -= FOLLOWING_HOUR_FEE;
27
             }
28
29
             return parkingFee;
30
         }
31
```

Analysis summary

The solution obtained perfect score.

Analysis

ехра	and all	Example tests	S		
•	example1 first example test		✓	OK	
•	example2 second example test		✓	OK	
ехра	and all	Correctness tes	sts	S	
•	under_ten_minute very short parking tim always 5		✓	OK	
•	random_under_ho		✓	OK	
•	equal_hours_sma parking for short time complete hours		✓	OK	
•	random randomly generated t		✓	OK	

•	mixed medium and short intervals	√ OK
•	equal_hours_big long parking time, for complete hours	✓ OK
•	random_big randomly generated parking times, for at least 20 hours	√ OK
•	maximum_result test cases giving maximum results or almost maximum results	√ 0K