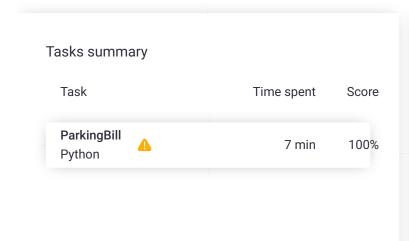
Codility_

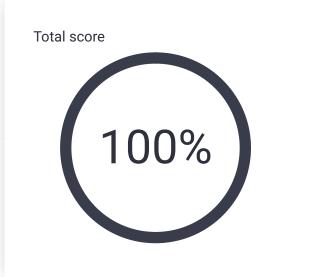
CodeCheck Report: trainingBSU2YW-VE2

Test Name:

Check out Codility training tasks

Summary Timeline





Tasks Details

1. ParkingBill

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 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

Solution

Programming language used: Python

Total time used: 7 minutes

•

1 von 3

7 minutes

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:

```
def solution(E, 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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Task timeline

14:16:32

14:23:06

Code: 14:23:05 UTC, py, show code in pop-up final, score: 100

1 # you can write to stdout for debugging # print("this is a debug message")
3 def solution(E, L):

Effective time used:

```
5
         # Implement your solution here
 6
         entrance_fee = 2
 7
         first_hour_cost = 3
 8
         successive_hour_cost = 4
 9
10
         entry_hour, entry_minute = map(int
11
         exit_hour, exit_minute = map(int,
12
13
         # Calculate the duration of parking
14
         duration = (exit_hour - entry_hour
15
         # Apply the billing rules
16
17
         total_cost = entrance_fee + first_
18
19
         # Subtract the first hour as it's
20
         duration -= 60
21
22
         if duration > 0:
23
             # Calculate the number of addi
24
             additional_hours = (duration +
25
             total_cost += additional_hours
26
27
         return total_cost
```

Analysis summary

The solution obtained perfect score.

Analysis

xpand all	Example tests
example1 first example to	∠ OK
example2 second examp	✓ OK le test
xpand all	Correctness tests
under_ten_n	ninutes 🗸 OK

2 von 3

•	random_under_hour short parking times, answer is always 5	√ OK	
>	equal_hours_small parking for short time, always with complete hours	∨ OK	
>	random randomly generated test cases	∠ 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	∨ OK	

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