

5789. The Number of Full Rounds You Have Played

My Submissions (/contest/weekly-contest-246/problems/the-number-of-full-rounds-you-have-played/submissions/)

Back to Contest (/contest/weekly-contest-246/)

A new online video game has been released, and in this video game, there are **15-minute** rounds scheduled every **quarter-hour** period. This means that at HH:00 , HH:15 , HH:30 and HH:45 , a new round starts, where HH represents an integer number from 00 to 23 . A **24-hour clock** is used, so the earliest time in the day is 00:00 and the latest is 23:59 .

Given two strings `startTime` and `finishTime` in the format "HH:MM" representing the exact time you **started** and **finished** playing the game, respectively, calculate the **number of full rounds** that you played during your game session.

- For example, if `startTime` = "05:20" and `finishTime` = "05:59" this means you played only one full round from 05:30 to 05:45 . You did not play the full round from 05:15 to 05:30 because you started after the round began, and you did not play the full round from 05:45 to 06:00 because you stopped before the round ended.

If `finishTime` is **earlier** than `startTime` , this means you have played overnight (from `startTime` to the midnight and from midnight to `finishTime`).

Return the **number of full rounds** that you have played if you had started playing at `startTime` and finished at `finishTime` .

User Accepted:	0
User Tried:	0
Total Accepted:	0
Total Submissions:	0
Difficulty:	Medium

Example 1:

Input: `startTime` = "12:01", `finishTime` = "12:44"
Output: 1
Explanation: You played one full round from 12:15 to 12:30.
You did not play the full round from 12:00 to 12:15 because you started playing at 12:01 after it began.
You did not play the full round from 12:30 to 12:45 because you stopped playing at 12:44 before it ended.

Example 2:

Input: `startTime` = "20:00", `finishTime` = "06:00"
Output: 40
Explanation: You played 16 full rounds from 20:00 to 00:00 and 24 full rounds from 00:00 to 06:00.
16 + 24 = 40.

Example 3:

Input: `startTime` = "00:00", `finishTime` = "23:59"
Output: 95
Explanation: You played 4 full rounds each hour except for the last hour where you played 3 full rounds.

Constraints:

- `startTime` and `finishTime` are in the format HH:MM .
- 00 <= HH <= 23
- 00 <= MM <= 59
- `startTime` and `finishTime` are not equal.

```
2  * @param {string} startTime
3  * @param {string} finishTime
4  * @return {number}
5  */
6  var numberOfRounds = function(startTime, finishTime) {
7
8  };
```

☐ Custom Testcase☒ Use Example Testcases Run Submit

Copyright © 2021 LeetCode

[Help Center \(/support\)](#) | [Jobs \(/jobs\)](#) | [Bug Bounty \(/bugbounty\)](#) | [Online Interview \(/interview/\)](#) | [Students \(/student\)](#) | [Terms \(/terms\)](#) |[Privacy Policy \(/privacy\)](#) [United States \(/region\)](#)