

2409. Count Days Spent Together

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Alice and Bob are traveling to Rome for separate business meetings.

You are given 4 strings `arriveAlice`, `leaveAlice`, `arriveBob`, and `leaveBob`. Alice will be in the city from the dates `arriveAlice` to `leaveAlice` (**inclusive**), while Bob will be in the city from the dates `arriveBob` to `leaveBob` (**inclusive**). Each will be a 5-character string in the format `"MM-DD"`, corresponding to the month and day of the date.

Return the total number of days that Alice and Bob are in Rome together.

You can assume that all dates occur in the **same** calendar year, which is **not** a leap year. Note that the number of days per month can be represented as: `[31, 28, 31, 30, 31, 30, 31, 31, 30, 31, 30, 31]`.

User Accepted:	6316
User Tried:	8603
Total Accepted:	6536
Total Submissions:	19082
Difficulty:	Easy

Example 1:

**Input:** `arriveAlice = "08-15"`, `leaveAlice = "08-18"`, `arriveBob = "08-16"`, `leaveBob = "08-19"`

**Output:** 3

**Explanation:** Alice will be in Rome from August 15 to August 18. Bob will be in Rome from August 16 to August 19. They are both

Example 2:

**Input:** `arriveAlice = "10-01"`, `leaveAlice = "10-31"`, `arriveBob = "11-01"`, `leaveBob = "12-31"`

**Output:** 0

**Explanation:** There is no day when Alice and Bob are in Rome together, so we return 0.

Constraints:

- All dates are provided in the format `"MM-DD"`.
- Alice and Bob's arrival dates are **earlier than or equal to** their leaving dates.
- The given dates are valid dates of a **non-leap** year.

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JavaScript


```
1 const calDays = (currentDate, futureDate) => { let res = (futureDate.getTime() - currentDate.getTime()) / (1000 * 3600 * 24); res = Math.ceil(res) + 1; res = Math.max(res, 0); return res; };
2
3 const countDaysTogether = function (arriveAlice, leaveAlice, arriveBob, leaveBob) {
4   let l = arriveAlice > arriveBob ? arriveAlice : arriveBob;
5   let r = leaveAlice < leaveBob ? leaveAlice : leaveBob;
6   return calDays(new Date(l), new Date(r));
7 };
```


☐ Custom Testcase

Use Example Testcases

 Run

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Submission Result: **Accepted** (/submissions/detail/802376768/) 

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