

Clock Tower Bell Counter

User Story

As a clock enthusiast, I want to know how many times a clock tower will ring its bell between two given times so that I can plan to sing along.

Background

A clock tower will ring its bell every hour, on the hour, a number of times equal to the number indicated by the hours hand.

Example

At 3pm, the clock tower will ring the bell three times. At midnight, it will ring the bell 12 times.

Technical Specification

Write a class with a method called "countBells" that will accept a start time and end time. Both times will be in twenty-four hour notation, such as 12:00 for noon and 15:30 for half-past three in the afternoon.

Your function should return a integer representing the number of times the clock tower will ring its bell between the two provided times.

Notes

1. If either time is on the hour (ex. 14:00) then you should count the bell rings that would occur at that hour.
2. If both times are equal, treat it as if twenty-four hours will pass and not that the two times are the same time on the same day.

Test Cases

1. **INPUT** \$startTime = '2:00'; \$endTime = '3:00'; **OUTPUT** 5
2. **INPUT** \$startTime = '14:00'; \$endTime = '15:00'; **OUTPUT** 5
3. **INPUT** \$startTime = '14:23'; \$endTime = '15:42'; **OUTPUT** 3
4. **INPUT** \$startTime = '23:00'; \$endTime = '1:00'; **OUTPUT** 24