# **CAMPANAS2**

### Background:

This problem is the second of a set based on the same problem statement ("How many times the bell rang?"), specifically designed to work with different approaches and types of solutions.

In this first problem, *your solution must be done using a recursive algorithm* (see this <u>Prezi</u>, to get some ideas about this). You can submit a solution done without respecting this requirement, and eventually, the judge will inform "Accepted". In this case, your solution will be disqualify later, in a manual way by the problem setter.

## **Problem Description:**

The priest of a church want to know the number of times the bell will ring during a specified time interval. This interval starts on h1:m1, and ends on h2:m2; where h1:m1 is the hour-minute of beginning, and h2:m2 is hour-minute of the end.

h1:m1 and h2:m2 are in the same day, and  $h1:m1 \le h2:m2$ .

#### Input

The input comes as a series of intervals, each in a different line. In each line there are four integers indicating hour and minute of the beginning and the end of the interval. The last line contains the values 0 0 0 0, indicating end of data and should not be processed.

In no case will be more than 100000 intervals in the input.

## **Output**

The output to show in each input case, will be an integer indicating the number of times that the bell will ring.

#### **Example:**

#### Input

8 0 8 56 9 0 9 15 7 15 8 16

0000

#### **Output**

4

1

5

Author / Autor: Daniel Ambort