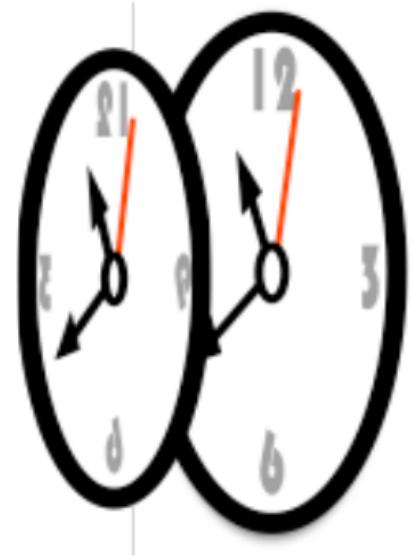


4176 Chronometers

Everybody knows that the Swiss build the most precise clocks in the world. The Geneva Chronometer Certification Institute of Switzerland takes great pride in its ingenious technique for measuring clock quality: They take two analog clocks, place them face to face, and measure the time until each of the three corresponding pairs of hands coincides. You need to write a program to help them decide if the clocks merit the coveted title.

As is well known, chronometer dials wrap around after 12 hours. All three hands of a chronometer are quantized by seconds. No hand moves continuously. The only time that is indicated is an integral number of seconds.



Input

Input to your program consists of lines with two times each, separated by white space. The times use the format *'hh:mm:ss'* for hours, minutes, and seconds within a 24 hour day; hours but not minutes or seconds might take a single digit.

Output

For each input line there is one output line with the minimal time span until the clocks coincide (using the same format as above), or the word "SAUERET" to indicate that your program decides that the hands simply will not make it.

Sample Input

```
3:04:05 15:41:45
```

Sample Output

```
2:37:05
```