The University of Calgary team qualified for the 28th ACM International Collegiate Programming Contest World Finals in Prague, Czech Republic. Just by using the initials of team members they got a very cunning team name: ACM (Alecs, Celly and Monny). In order to prepare for the contest, they have decided to travel to Edmonton to learn the tricks of trade from Dilbert, Alberta-wide famous top-coder.

Due to a horrible miscommunication which is as welcome as a plague among such teams, $\mathbf{A}, \mathbf{C}$ and $\mathbf{M}$ drive from Calgary to Edmonton in separate cars. To make things worse, there was also a miscommunication with $\mathbf{D}$, who being always so helpful, decides to go to Calgary in order to save the team a trip to the far, freezing North. All this happens on the same day and each car travels at a constant (but not necessarily the same) speed on the famous Alberta \#2.

Then A passed $\mathbf{C}$ and $\mathbf{M}$ at time $t_{1}$ and $t_{2}$, respectively, and met $\mathbf{D}$ at time $t_{3}$. $\mathbf{D}$ met $\mathbf{C}$ and $\mathbf{M}$ at times $t_{4}$ and $t_{5}$, respectively. The question is: at what time did $\mathbf{C}$ pass $\mathbf{M}$ ?

## Input

The input is a sequence of lines, each containing times $t_{1}, t_{2}$,
 $t_{3}, t_{4}$ and $t_{5}$, separated by white space. All times are distinct and given in increasing order. Each time is given in the $h h: m m: s s$ format on the 24 -hour clock. A line containing ' -1 ' terminates the input.

## Output

For each line of input produce one line of output giving the time when $\mathbf{C}$ passed $\mathbf{M}$ in the same format as input, rounding the seconds in the standard way.

## Sample Input

| $10: 00: 00$ | $11: 00: 00$ | $12: 00: 00$ | $13: 00: 00$ | $14: 00: 00$ |
| :--- | :--- | :--- | :--- | :--- |
| $10: 20: 00$ | $10: 58: 00$ | $14: 32: 00$ | $14: 59: 00$ | $16: 00: 00$ |
| $10: 20: 00$ | $12: 58: 00$ | $14: 32: 00$ | $14: 59: 00$ | $16: 00: 00$ |
| $08: 00: 00$ | $09: 00: 00$ | $10: 00: 00$ | $12: 00: 00$ | $14: 00: 00$ |

## Sample Output

12:00:00
11:16:54
13:37:32
10:40:00

