

NEW YEAR GRADO 10

Lukas spends the day of New Year's Eve counting the minutes that are missing so that they give the grapes. Can help him?

Input

The entry consists of a series of hours, each in a line. Each hour is formed by the hours and minutes separated by two dots (:) and always using two digits. A representation is used in 24 hours format (that is, from 00:00 to 23:59).

Entry ends when the time is midnight (00:00), which should not be processed.

Output

For each test case a line will be shown with the number of minutes remaining by midnight.

Example

Input:

23:45

21:30

00:01

00:00

Output:

15

150

1439