Problem 1 – Video Durations

Peter watches videos every day. Once he wanted to calculate how many time he spends watching videos. He extracted a list of all videos he watched but he was unable to sum their durations because they were in format **hours:minutes**. Write a program to help Peter **sum the durations of the videos** he watched and print them in format **hours:minutes** (where minutes should be in the range 0...59).

Input

The input data should be read from the console. It consists of several input lines, each holding a video duration in format **hours:minutes**. At the last line the string "**End**" stays to indicate the end of the movie durations list.

The input data will always be valid and in the format described. There is no need to check it explicitly.

Output

Print at the console the sum of the durations of all videos in format **hours:minutes**. The minutes should always be in **two digits format** (from "**00**" to "**59**").

Constraints

- The **hours** will be an integer number in the range [0…999].
- The **minutes** will be an integer number in the range [0…59].
- The **count** of video durations will be in the range [0..999].
- Time limit: 0.3 sec. Memory limit: 16 MB.

Examples

Input	Output
1:40 2:25 17:35 0:01 2:57 End	24:38

Input	Output
0:02 0:59 End	1:01

Input	Output
0:00 0:59 0:01 End	1:00

Input	Output
5:55 4:44 3:33 1:11 End	15:23

Input	Output
1:03 End	1:03