

Problem 3 – Sum Time Intervals

Write a program to **sum two time intervals** given in format **days: :hours:minutes** (days are optional). Standard 24-hour time is used: **hours** are in range **[0...23]**, **minutes** are in range **[0...59]**.

Input

- The input is read from the console. It holds two text lines.
 - Each input line holds time interval in format **days: :hours:minutes**.
- Days are optional, but hours and minutes are mandatory.
- Leading zeroes are allowed in all numbers, but not necessary.

Output

- Print the **sum of the time intervals** at the console in format **days: :hours:minutes**.
- **Minutes** should be displayed with **leading zero**, e.g. **5** should be displayed as **"05"** and **25** should be **"25"**.
- **Hours** should be displayed with **no leading zeroes**, e.g. **5** should be displayed as **"5"** and **25** should be **"25"**.
- If **days** are **0** in the result, don't display them (see the examples below).

Constraints

- **Minutes** are integers in range **[0...59]**.
- **Hours** are integers in range **[0...23]**.
- **Days** are integers in range **[0...999]**.
- Time limit: **100 ms**. Allowed memory: **16 MB**.

Sample Input and Output

Input	Output
1:15 1:25	2:40

Input	Output
1:30 2:35	4:05

Input	Output
0:06 23:55	1::0:01

Input	Output
3::11:30 12:45	4::0:15

Input	Output
0:01 0:01	0:02

Input	Output
1:00 1:30	2:30

Input	Output
23:55 03:50	1::3:45

Input	Output
3::11:30 5::01:20	8::12:50