

Program Name: logtime.cpp

Input File: logtime.dat

Compute the number of seconds since January 1, 2002 at midnight for any point in time for the year. You are examining some log data from some high-performance runs as part of your job and need to do some data modeling. Unfortunately, the log contains dates and times that you need to convert into the number of seconds elapsed since the beginning of the year (2002).

The date/time combination in the log is in the fixed format: “mm/dd/ccyy hh:mm:ss”. For example, the date/time (military time) from the input log might look like “04/08/2002 19:27:43” which is April 8, 2002 at 7:27:43 p.m. Your program would then compute the elapsed time (not including the current second) since 01/01/2002 00:00:00. In the case of our example, you would compute the elapsed time as 8450863 seconds.

Input

Input to your program will consist of a series of date/time test points. Each one will be formatted as

```
mm/dd/ccyy hh:mm:ss
```

with exactly one space between the date and the time. There will be no extraneous data on any line and all dates and times will be valid. You may also assume that the year will always be 2002.

Output

For each line of input, you should print the following output line.

```
mm/dd/ccyy hh:mm:ss => X
```

where X is the number of seconds elapsed. Print the output line exactly in the format described above (paying attention to the “=>” because it makes it easier and obvious to judge).

Example: Input File

```
07/01/2002 18:54:19
04/08/2002 19:27:43
12/31/2002 23:59:59
```

Output to screen

```
07/01/2002 18:54:19 => 15706459
04/08/2002 19:27:43 => 8450863
12/31/2002 23:59:59 => 31535999
```