8 - Zombdar

You are reading data from a zombie sensor. The sensor scans the area to obtain the number of zombies in the immediate area. The zombie sensor normally writes log entries in the form of "Zombies: <integer>" or "No Zombies;" to its buffer as it performs scans, but it may also write "RUN;" when the sensor is overloaded. These are the only values that will be written to the buffer.

The zombie sensor's serial port emits a line containing whatever data is in its buffer every second, regardless of whether the buffer contains a complete log entry, or even multiple entries.

A valid sequence of log entries may be:

Zombies: 5;
Zombies: 1;
No Zombies;
Zombies: 70;
RUN;
RUN;
RUN;

But the sensor's serial port may emit:

Zombies: 5;Zombies: 1;
;
No Zombies;
Zombies 70;
RUN;
RUN;RUN;Zo

It is imperative to process the serial port data correctly if you are to survive.

Input
The first line of input contains the number of data sets, $N$ ($1 \leq N \leq 50$). For each data set, the input contains the raw data emitted by the zombie sensor's serial port (see above for details) followed by a line containing only the string "END OF CASE". Since data is emitted by the zombie sensor's serial port once per second, the first line of input is read after 1 second, the 2nd line after 2 seconds, and so on.

**Output**

For each complete log entry, you should output a line containing "timestamp: log_entry", where timestamp is the number of seconds elapsed between the start of the data set and the time at which the entry was completely parsed.

**Sample Input**

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2
Zombies: 5; Zombies: 1;
No Zombies;
Zombies: 70;
RUN;
RUN; RUN; RUN
END OF CASE
No
Zombies;
No
Zombies;
Zombies: 4; Zombies: 14;
Zombies: 60;
Zombies: 100;
Zombies: 15;
RUN;
```
Sample Output

3: Zombies: 5;
4: Zombies: 1;
5: No Zombies;
6: Zombies: 70;
7: RUN;
8: RUN;
8: RUN;
2: No Zombies;
4: No Zombies;
5: Zombies: 4;
7: Zombies: 14;
9: Zombies: 60;
11: Zombies: 100;
14: Zombies: 15;
15: RUN;
16: RUN;
16: RUN;

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