

# 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:

Zom  
bies:  
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.

## Examples

Nº	stdin	stdout
1	2	3: Zombies: 5;

<div>Zom bies: 5;Zombies: 1 ; No Zombies; Zombies: 70; RUN; RUN;RUN;RU END OF CASE No Zombies; No Zombies; Zombies: 4;Z ombies : 14; Zombies : 60; Zombies: 100;  Zom bies: 15; RUN; RUN;RUN; R END OF CASE</div>	<div>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;</div>
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