8. Median Mile

James is keeping the times in the mile race for the swim team at his school. Before selecting the swimmers for the district swim meet, the coach wants to know each swimmer's median time from the mile swims that she has swum this year.

The median time is:

- the middle time of an odd number of times sorted from least to greatest.
- the average of the two middle times of an even number of times sorted from least to greatest.

Input

The first line of input will contain a single integer n that indicates the number of swimmers to be considered. Each of the following n lines will contain the swimmer's first name with no spaces followed by a list of times in the form mm:ss.hh where $15 \le mm \le 40$ is the number of minutes, $00 \le ss \le 59$ is the number of seconds, and $00 \le hh \le 99$ is the number of hundredths of seconds. Each of the times will be separated by a single space.

Output

For each swimmer, you will print the student's name and a space followed by her median time in the format mm:ss.hh. The hundredths should be truncated, not rounded.

Example Input File

```
3
MARY 21:12.32 22:14.45 23:55.84 24:48.99
ANN 28:16.39 28:10.87 27:04.00 27:05.01 29:29.71
LUCY 33:43.82 28:24.95 30:52.94 29:55.26
```

Example Output to Screen

MARY 23:05.14 ANN 28:10.87 LUCY 30:24.10