# 1. Walk (`jalu`)

1 second 10 points

Mart takes a walk every day and his sports watch registers the duration and speed of each segment of uniform movement of his walk. After the walk, Mart can download a log file to his computer. Find the total distance and the average speed of the walk based on this file.

**Input.** The first line of the text file `jalusis.txt` contains an integer $N$ ($1 \le N \le 10{,}000$) and each of the subsequent $N$ lines contains the following (space-separated) data about one segment:

- the duration of the segment in minutes and seconds in the form $M$`m`$S$`s`, where $M$ is the integer number of minutes (and the minutes part is omitted for times less than a minute) and $S$ is the integer number of seconds (which never exceeds 59);
- the word `kiirusega`;
- the speed on this segment expressed as minutes and seconds per kilometre in the form $M$`m`$S$`s/km`, where $M$ is the integer number of minutes and $S$ is the integer number of seconds (which never exceeds 59), and you may assume Mart needs at least a minute, but less than an hour, per kilometre.

You may also assume that the total of the durations of all segments does not exceed 24 hours.

**Output.** The text file `jaluval.txt` should contain two lines:

- on the first line the total distance of the walk, rounded to metres, in the form $L$`m`, where $L$ is the integer number of metres;
- on the second line the average speed in the form $V$`km/h`, where $V$ is a real number; the output value must not differ from the correct answer by more than 0.001.

**Example.**

`jalusis.txt`
```
3
8m30s kiirusega 9m10s/km
4m10s kiirusega 8m1s/km
21s kiirusega 4m10s/km
```

`jaluval.txt`
```
1531m
7.057km/h
```