

18 Fidelity miles converter

7 points

Introduction

HP Managers use to travel lots of times per year in order to visit the different HP sites and facilities around the world. Airlines reward customer's loyalty by granting points depending on the single integer number of miles traveled, which are converted to points that can be exchanged for tickets at a discounted price, or even free. Usually, the more miles you travel, the bigger reward you can get.

HP has an agreement with its favorite airline, that offers the following points plan:

- You earn one point per each completed mile you have flight.
- You earn 2 points per each completed mile after having flown between 10000 and 25000 miles.
- You earn 3 points per each completed mile after having flown between 25000 and 50000 miles.
- You earn 5 points per each completed mile after having flown more than 50000 miles.

Input

Input will be one or more sequences formed by a name plus one or more numbers. The '#' character represents the end of the input.

```
Jessica  
8625.31  
3922.91  
7543.02  
5903.94  
1905.24  
1827.88  
3858.48  
2437.70  
8625.31  
9537.85  
Joseph  
5903.94  
715.06  
Sarah  
5903.94  
715.06  
5786.84  
2387.21  
3349.56  
6104.07  
1187.34  
Brandon  
5536.89  
5536.89  
#
```



Output

Output will be the list of travelers and the points accumulated, ordered from highest to lowest.

Jessica 135910

Sarah 41293

Brandon 12144

Joseph 6618

