**Problem**

In a small shop all goods is 5 Euro/piece. If somebody buys during one shopping from one given article more pieces, then the 2nd is only 4,5 Euro, the 3rd piece is just 4.0 Euro, and the 4th, 5th..... are the prices after the 3rd one will not decrease.

In the cart of the customers who are going to the cashier at least there is 1 at most there are 20 pieces of goods. The content of the carts are in the penztar.txt file, where every row contains the name of the goods or an „F” character. The file is at most 1000 rows. „F” means that the customer doesn’t have a new goods in his cart, payment is coming. The name of the goods are without accent, can be more words, its length is at most 30 characters.

Examples for some rows of penztar.txt :

toll

F

colostok

HB ceruza

HB ceruza

colostok

toll

szatyor csavarkulcs

doboz

F

For example: The first customer bought 1 toll and he had to pay 5 Euro. The second customer has 6 goods – from HB ceruza and colostok more – for the price 39 HUF

Please write a program, which using the data of penztar.txt answers the following questions. Please send back the source code of the program in a compressed file. Please make unit tests using TestNG.

If subtask has an output please write the number of the subtask before the result. (e.g. 3.task)! If you ask for data from the user, display on the screen what type do you expect for the input fields.

1.Read and save the content of penztar.txt

2.Define how many times were paid at the cashier

3.Write to the screen, that the first customer how many pieces of goods were in his cart.

4.Ask from the user

- the number of one buying

- one name of one goods

- one quantity

5.Define, that from the requested goods

* a. which is the first and the last time when this item is included in the cart
* b. how many times does this item is bought

6.Define the total price of the item based on the quantity

7.List the content of the cart in the following format: name of the item, quantity. The order of the item could in any order.

Create an osszeg.text file and write out the total price of every cart using the given output format.

**Examples for the text output:**

|  |
| --- |
| 2nd task  Number of payments: 141  3rd task  1st customer bought 1 piece of goods  4th task  Define the number of buying! 2  Define the name of the goods! Kefe  Define the number of quantity! 2  5th task  Numer of 1st buying: 5  Number of the last buying: 139  It was bought in 32 buying.  6th task  Total price when buying 2 pieces: 9,5  7th task  1 toll  1 szatyor  1 doboz   1. csavarkulcs 2. colostok   2 HB ceruza |