Predictive Hire

Bakery

Background:

A bakery used to base the price of their produce on an individual item cost. So if a customer ordered 10 cross buns then they would be charged 10x the cost of single bun. The bakery has decided to start selling their produce prepackaged in bunches and charging the customer on a per pack basis. So if the shop sold vegemite scroll in packs of 3 and 5 and a customer ordered 8 they would get a pack of 3 and a pack of 5. The bakery currently sells the following products:

Name	Code	Packs
Vegemite Scroll	VS5	3 @ $6.99 5 @ $8.99
Blueberry Muffin	MB11	2 @ $9.95 5 @ $16.95 8 @ $24.95
Croissant	CF	3 @ $5.95 5 @ $9.95 9 @ $16.99

Task:

Given a customer order you are required to determine the cost and pack breakdown for each product. To save on shipping space each order should contain the minimal number of packs.

Input:

Each order has a series of lines with each line containing the number of items followed by the product code. An example input:
10 VS5
14 MB11
13 CF

Output:

A successfully passing test(s) that demonstrates the following output:

10 VS5 $17.98
    2 x 5 $8.99

14 MB11 $54.8
    1 x 8 $24.95
    3 x 2 $9.95

13 CF $25.85
    2 x 5 $9.95

    1 x 3 $5.95

Advice:

- Choose whatever language you're comfortable with but please remember that we're better equipped to assess your skills in JavaScript, Java or Ruby
- Please adhere to the input/output specified
    - The input can be from a file
    - The output goes to the console
- Make sure you include tests, we would like to see how you do them
- We expect the see code which you would be happy to put in production
    - That doesn't mean you need to use a database
    - That doesn't mean you need to build a web-app or an API
    - It can be a simple console application
    - You can do everything in memory or use files to store your configuration
    - This covers all aspects of code maintainability, readability and modelling
- If something is not clear don't hesitate to ask or just make an assumption and go with it