

Hello candidate, welcome!

We want to know a little more about your way of developing applications and solving problems, so we have prepared a small challenge, as follows:

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

Name	Code	Packs
Meia Camarão Internacional	CI00432	3 @ \$6.99 5 @ \$8.99
Praia Olinda	PO01098	2 @ \$9.95 5 @ \$16.95 8 @ \$24.95
Meio Cam CB	CBF19203	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 CI00432
14 PO01098
13 CBF19203
```

Output:

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

10 CI00432 \$17.98
2 x 5 \$8.99

14 PO01098 \$54.8
1 x 8 \$24.95
3 x 2 \$9.95

13 CBF19203 \$25.85
2 x 5 \$9.95
1 x 3 \$5.95

Advice:

- Sketch before you start
- Choose whatever language you're comfortable with
- The input/output format is not important, do whatever feels reasonable
- Make sure you include at least one test
- We expect to see code which you would be happy to put in production
- Do not hesitate to ask for clarification or just make an assumption and go with it

You have up to 7 (seven) days to complete the challenge, from the date of receipt. Every file produced in the solution must be in a git repository such as the project code, readme.md, and the kanban document. Send an email to talentos.ti@cocobambu.com with the subject **Desafio Engenharia Dados Coco Bambu 2024**, the body of the email must contain the link to your Git repository. With just this repository we should have access to the code, be able to run the project and possible tests.

Prepared?

We look forward to your test. Good luck!