

Homework test for software engineer (BE)

Time: 60 - 120 minutes recommended.

- We don't expect your submitted code to work in all browsers. But it should show that you've thought about fallbacks when using newer language features.
- Don't get too hung up on the exact colors of text or margins between elements. We'll be looking at the structure of your code more than expecting pixel precision.
- We advise spending at least 60 - 120 minutes on the test – if you want to spend more or less time on it, that's completely up to you.

Please submit your test to recruit-tech@freshket.co

Our **scoring** will be determined in 4 criterias:

- Readability
 - Maintainability
 - Extensibility
 - Logic
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1) Calculator

Write a Calculator class for food store (you can use any programming languages)

- This food store only have 7 items in menu
 - Red set 50 THB/set
 - Green set 40 THB/set
 - Blue set 30 THB/set
 - Yellow set 50 THB/set
 - Pink set 80 THB/set
 - Purple set 90 THB/set
 - Orange set 120 THB/set
- Customers can order multiple items
- Write a function that receives these 7 items, calculates and returns the price.
- Conditions:
 - Customers can get 10% on Total, if customers have a member card.
 - Order doubles of Orange, Pink or Green sets will get a 5% discount for each bundles (not in total)
- If you provide unit-tests; you will get an extra score.
- **Example:**

- Desk#1: Customers order Red set and Green set; price from calculation is 90
- Customers can use a member card, then the price should be deducted by discount amount 10%.
- For Orange sets, if customers order 5 items per bill. customers will get a 5% discount for 4 items (2 pairs).