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Exercise 6

2018.10.27

Step 10: First run of cucumber.api.cli.Main

```
osboxes@osboxes:~/ex6/ex6cashier$ java -cp "/usr/local/share/jars/*" cucumber.ap
i.cli.Main --snippets camelcase -p pretty .
#
# checkout.feature: Cucumber script for cashier system
#
Feature: checking it out

  Scenario: Checking out a banana      # features/checkout.feature:7
    Given the price of a banana is 42c
    When I checkout 1 banana
    Then the total price should be 42c

1 Scenarios (1 undefined)
3 Steps (3 undefined)
0m0.000s

You can implement missing steps with the snippets below:

Given("^the price of a banana is (\\d+)c$", (Integer arg1) -> {
    // Write code here that turns the phrase above into concrete actions
    throw new PendingException();
});

When("^I checkout (\\d+) banana$", (Integer arg1) -> {
    // Write code here that turns the phrase above into concrete actions
    throw new PendingException();
});

Then("^the total price should be (\\d+)c$", (Integer arg1) -> {
    // Write code here that turns the phrase above into concrete actions
    throw new PendingException();
});
```

Step 18: Running of ex6-cucumber

```
osboxes@osboxes:~/ex6/ex6cashier$ cat /usr/local/bin/ex6-cucumber
cat: /usr/local/bin/ex6-cucumber: No such file or directory
osboxes@osboxes:~/ex6/ex6cashier$ ex6-cashier
ex6-cashier: command not found
osboxes@osboxes:~/ex6/ex6cashier$ chmod +x /usr/local/bin/exy-cucumber
chmod: cannot access '/usr/local/bin/exy-cucumber': No such file or directory
osboxes@osboxes:~/ex6/ex6cashier$ chmod +x /usr/local/bin/ex6-cucumber
chmod: cannot access '/usr/local/bin/ex6-cucumber': No such file or directory
osboxes@osboxes:~/ex6/ex6cashier$ ex6-cucumber
ex6-cucumber: command not found
osboxes@osboxes:~/ex6/ex6cashier$ chmod +x ~/ex6/ex6cashier/ex6-cucumber
osboxes@osboxes:~/ex6/ex6cashier$ ls *
ex6-cucumber

features:
checkout.feature

implementation:
Checkout.class  Checkout.java

step_definitions:
CheckoutSteps.class  CheckoutSteps.java
osboxes@osboxes:~/ex6/ex6cashier$
```

Step 21: Adding two more scenarios and running ex6-cucumber

Feature: checking it out

Scenario: Checking out a banana

Given the price of a banana is 42c

When I checkout 1 banana

Then the total price should be 42c

Scenario: Checking out multiple apples

Given the price of a apple is 15c

When I checkout 3 apple

Then the total price should be 45c

Scenario: Checking out no fruits

Given the price of a orange is 32c

When I checkout 0 orange

Then the total price should be 0c

```
osboxes@osboxes:~/ex6/ex6cashier$ ./ex6-cucumber
```

```
...UU-UU-
```

```
3 Scenarios (2 undefined, 1 passed)
```

```
9 Steps (2 skipped, 4 undefined, 3 passed)
```

```
0m0.112s
```

You can implement missing steps with the snippets below:

```
Given("^the price of a apple is (\\d+)c$", (Integer arg1) -> {  
    // Write code here that turns the phrase above into concrete actions  
    throw new PendingException();  
});
```

```
When("^I checkout (\\d+) apple$", (Integer arg1) -> {  
    // Write code here that turns the phrase above into concrete actions  
    throw new PendingException();  
});
```

```
Given("^the price of a orange is (\\d+)c$", (Integer arg1) -> {  
    // Write code here that turns the phrase above into concrete actions  
    throw new PendingException();  
});
```

```
When("^I checkout (\\d+) orange$", (Integer arg1) -> {  
    // Write code here that turns the phrase above into concrete actions  
    throw new PendingException();  
});
```

```
osboxes@osboxes:~/ex6/ex6cashier$
```

Step 23: Adding Examples table and running ex6-cucumber

Feature: checking it out

Scenario: Checking out a banana

Given the price of a banana is 42c

When I checkout 1 banana

Then the total price should be 42c

Scenario: Checking out multiple apples

Given the price of a apple is 15c

When I checkout 3 apple

Then the total price should be 45c

Scenario: Checking out no fruits

Given the price of a orange is 32c

When I checkout 0 orange

Then the total price should be 0c

Scenario Outline: Checking out different fruits

Given the price of a <fruit> is <price>c

When I checkout <amount> <fruit>

Then the total price should be <total>c

Examples:

fruit	price	amount	total
toast	109	2	218
grape	33	3	99
Waffle	12	7	84

You can implement missing steps with the snippets below:

```
Given("^the price of a apple is (\\d+)c$", (Integer arg1) -> {
    // Write code here that turns the phrase above into concrete actions
    throw new PendingException();
});

When("^I checkout (\\d+) apple$", (Integer arg1) -> {
    // Write code here that turns the phrase above into concrete actions
    throw new PendingException();
});

Given("^the price of a orange is (\\d+)c$", (Integer arg1) -> {
    // Write code here that turns the phrase above into concrete actions
    throw new PendingException();
});

When("^I checkout (\\d+) orange$", (Integer arg1) -> {
    // Write code here that turns the phrase above into concrete actions
    throw new PendingException();
});

Given("^the price of a toast is (\\d+)c$", (Integer arg1) -> {
    // Write code here that turns the phrase above into concrete actions
    throw new PendingException();
});

When("^I checkout (\\d+) toast$", (Integer arg1) -> {
    // Write code here that turns the phrase above into concrete actions
    throw new PendingException();
});

Given("^the price of a grape is (\\d+)c$", (Integer arg1) -> {
    // Write code here that turns the phrase above into concrete actions
    throw new PendingException();
});

When("^I checkout (\\d+) grape$", (Integer arg1) -> {
    // Write code here that turns the phrase above into concrete actions
    throw new PendingException();
});

Given("^the price of a Waffle is (\\d+)c$", (Integer arg1) -> {
    // Write code here that turns the phrase above into concrete actions
    throw new PendingException();
});

When("^I checkout (\\d+) Waffle$", (Integer arg1) -> {
    // Write code here that turns the phrase above into concrete actions
    throw new PendingException();
});
```

Step 27: All Tests Passing

```

1 //
2 // CheckoutSteps.java: step file implementing tests in checkout.features
3 //
4
5 package step_definitions;
6
7 import cucumber.api.java8.En;
8 import cucumber.api.PendingException;
9 import static org.junit.Assert.*;
10 import implementation.Checkout;
11
12 public class CheckoutSteps implements En {
13     private Checkout checkout = new Checkout();
14
15     public CheckoutSteps() {
16         Given("^the price of a(n)? ([A-Za-z]+[^\s])s? is (\\d+)c$", (String item, Integer priceInCents) -> {
17             checkout.setPrice(item, priceInCents);
18         });
19
20         When("^I checkout (\\d+) ([A-Za-z]+[^\s])s?$", (Integer amount, String item) -> {
21             checkout.add(item, amount);
22         });
23
24         When("^I checkout (\\d+) ([A-Za-z]+[^\s])s? and (\\d+) ([A-Za-z]+[^\s])s?$", (Integer amount1, String item1, Integer amount2, String item2) -> {
25
26             checkout.add(item1, amount1);
27             checkout.add(item2, amount2);
28         });
29
30         Then("^the total price should be (\\d+)c$", (Integer total) -> {
31             assertEquals(new Integer(checkout.total()), total);
32         });
33     }
34 }
35

```

Feature: checking it out

Scenario: adding a banana

Given the price of a banana is 42c

When I checkout 1 banana

Then the total price should be 42c

Scenario: adding a banana different price

Given the price of a banana is 15c

When I checkout 1 banana

Then the total price should be 15c

Scenario: adding multiple apples

Given the price of an apple is 56c

When I checkout 3 apples

Then the total price should be 168c

Scenario Outline: Checking out multiple amount

Given the price of a <fruit> is <price>c

When I checkout <amount> <fruit>

Then the total price should be <pay>c

Examples:

fruit	price	amount	pay	
toast	109	2	218	
grape	33	3	99	
Waffle	12	7	84	

Scenario Outline: Checking out different fruits

Given the price of an <fruit> is <price>c

And the price of a <fruit2> is <price2>c

When I checkout <amount> <fruit>s and <amount2> <fruit2>

Then the total price should be <pay>c

Examples:

fruit	fruit2	price	price2	amount	amount2	pay	
corn	orange	15	25	1	3	90	
grape	kiwi	10	12	5	6	122	
apple	banana	20	24	8	2	208	


```
osboxes@osboxes:~/ex6/ex6cashier$ ./ex6-cucumber
.....

9 Scenarios (9 passed)
30 Steps (30 passed)
0m0.284s

osboxes@osboxes:~/ex6/ex6cashier$
```