# A simple checkout application

Implement the code for a supermarket checkout that calculates the total price of several items.

In a normal supermarket, items are identified by 'stock keeping units' or 'SKUs'. In our store, we will use individual letters of the alphabet, A, B, C etc, as the SKUs. Our goods are priced individually. In addition, some items have promotions of any of the following types:

- Multi-priced: buy n of them and which will cost you y. For example, item A might cost 50 pence individually but this week we have a special offer where you can buy 3 As for £1.30
- Buy n get 1 free
- Meal deal: buy different items together and get a special price. For instance, items D and E might cost £1.50 and £2 each individually but this week we have a special offer where you can buy one of each for just £3.25

### This week's prices are the following:

Item SKU	Unit Price (in £)	Special Price
А	0.50	
В	0.60	2 for £1
С	0.25	Buy 3, get one free
D	1.50	Buy D and E for £3.25
E	2.00	Buy D and E for £3.25

Our checkout accepts items in any order so if we scan a B, then an A, then another B, we will recognise the two B's and apply the special promotion of 2 for £1.

*Hint*: Because the pricing changes frequently we will need to be able to pass in a set of pricing rules each time we start handling a checkout transaction.

#### What we are looking for

- Simple design, implemented using either Java or Kotlin (don't translate Java to Kotlin)
- Test-Driven Development (TDD) and a commit history that shows an incremental approach to tackling the problem (don't commit the solution as one single commit)
- Clean, readable code (don't use any libraries other than JUnit and optionally Hamcrest for testing)
- Handling of edge cases
- Use of SOLID design principles

### What we don't want you to worry about

• A UI, API, database or reading from files

## Submission

Our preference is that you develop it locally keeping the history in Git and then push it to Github or equivalent and send us the link.