



## M&S DIGITAL LABS

### Code Test

M&S Digital Labs have decided to open a hyper-focussed online shop that sells only three things - jeans, blouses, and socks. Each product has a corresponding product code and price:

Product	Code	Price
Jeans	J01	£32.95
Blouse	B01	£24.95
Socks	S01	£7.95

To try and incentivise customers to spend more with us, the delivery charges are staggered. For orders under £50, delivery costs £4.95. For orders under £90, delivery costs £2.95. Orders over £90 have free delivery.

We're also experimenting with special offers. The initial offer will be “buy one pair, get another pair half price” on jeans.

The final piece of code to write is the basket, which needs to have the following interface:

- It is initialised with the product catalog, delivery charge rules, and offers (the format of how these are passed is up to you)
- It has an `add` method that takes the product code as a parameter
- It has a `total` method that returns the total cost of the basket, taking into account the delivery and offer rules

So that you can check your implementation, here are some example baskets and the expected totals:

Products	Basket Total
S01, B01	£37.85
J01, J01	£54.37
J01, B01	£60.85
S01, S01, J01, J01, J01	£98.27