**Pre-interview Exercise for Developer Candidates**

The following exercise will assess your ability to deliver well-structured and maintainable

code. As a TDD shop we will put equal emphasis on evaluating your tests as we will on

the code itself.

Please complete the following exercise in Scala. If this exercise goes well,

you may be asked to make further amendments to your code during a pair programming

exercise with a member of the team. Please pick the language you think you will be best

able to demonstrate your skill and experience.

**Please use git to version control your exercise.** After completing the first step, please

clearly tag the commit so that we can evaluate your approach. You may make other

commits to further demonstrate your approach. Please compress your answers and

submit them via your agent or send us a link to your Github account. Do not

send us binaries, they won’t get through our firewalls.

*Complete the steps in order. Don’t read ahead. At each step build the simplest*

*possible solution which meets our requirement. Tag a git commit after each step*

*so that your approach is clear.*

Your answers will be used as part of our sifting and are likely to be discussed with your

interviewer at later stages.

**Step 1: Shopping cart**

* You are building a checkout system for a shop which only sells apples and

oranges.

* Apples cost 60p and oranges cost 25p.
* Build a checkout system which takes a list of items scanned at the till and outputs

the total cost

* For example: [ Apple, Apple, Orange, Apple ] => £2.05
* Make reasonable assumptions about the inputs to your solution; for example, many

candidates take a list of strings as input

**Step 2: Simple offers**

* The shop decides to introduce two new offers
* buy one, get one free on Apples
* 3 for the price of 2 on Oranges
* Update your checkout functions accordingly