

### Java/J2EE Coding Exercise

**Instruction:**

- You can attempt ANY ONE of the problems below of your choice.
  - Please use <https://github.com/> to solve the below problems.
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#### General

The solution should address the following aspects -

1. Self-sufficient project that can be tested and run
2. Must use best practices, design methodologies, patterns
3. Must be unit tested

#### Problem #1

Build the domain model only for a checkout counter in an online retail store that scans products and generates an itemized bill.

The bill should also total the cost of all the products and the applicable sales tax for each product.

The total cost and total sales tax should be printed

Sales tax varies based on the type of products

- Category A products carry a levy of 10%
- Category B products carry a levy of 20%
- Category C products carry no levy

#### Problem #2

Build the domain model only that generates the round robin schedule for the PRO-Kabaddi event that conforms to the following constraints

- Accept N number of teams
- Each team must play against every other team once home and away
- Maximum 2 matches per day are allowed
- No team should play on consecutive days