

PTS Test - OOP and Data Structure

Please save your file as PTS_SE_CandidateName (e.g. PTS_SE_AthiraFajrina). If you have more than one file, please zip the file.

Please use your OOP and data structure knowledge. What is graded:

1. Data structure effectiveness
2. Data structure efficiency
3. Program correctness
4. OOP understandings
5. Understanding of the task

The Islander Shop (TIS) is a small clothing shop which requires a simple POS (Point of Sales) application which accepts items, buyers, and transactions and generate a summary of the sales. TIS sells 3 types of clothings: hats, tops, and shorts. There are 3 types of buyers: regular, VIP, and wholesale which prices for each of the items varies for certain types of buyers.

Every item must have a price for regular buyers;

- if they don't then the POS should print an error and the summary cannot be printed **console.log()**.
- If an item does not have special price for VIP or wholesale then the regular price is used. Item names and buyer names are unique;
- if the input contains duplicated item or buyer then the POS should print an error and the summary cannot be printed **console.log()**.
- *please print **console.log()** error in english*

If all conditions are met, then an output summary should be printed. The summary contains of:

1. Total number of transactions
2. Best selling item name
3. Best selling category
4. Revenue per category
5. Revenue of the day
6. Three most spender customers

Important !

1. Task is written by Typescript.
2. You dont need to create this feature as API or front end application.

Sample of

- please open input-example.json as input and output-example.json as output.