

Coding Exercise

The challenge:

As a part of the internet banking application, the user has the ability to assign categories to all the transactions they see. Eg:

A sample set of outgoing transactions are as follows:

Transaction Date	Vendor	Type	Amount	Category
01/Nov/2020	Morrisons	card	£10.40	Groceries
28/Oct/2020	CYBG	direct debit	£600	MyMonthlyDD
28/Oct/2020	PureGym	direct debit	£40	MyMonthlyDD
01/Oct/2020	M&S	card	£5.99	Groceries
30/Sep/2020	McMillan	internet	£10	

Use the category field to classify and provide the following:

1. All transactions for a given category - latest first
2. Total outgoing per category
3. Monthly average spend in a given category
4. Highest spend in a given category, for a given year
5. Lowest spend in a given category, for a given year

Guidelines:

- Use a language of your choice
- We are not looking for frameworks or full-blown applications with front-end/persistence etc.
- Data can be sample data in files or in-memory
- The code that does the computation should be production quality
- You should not have to use too many external libraries