

Technical challenge - Determine top spenders for the month

Develop a Go service that reads sample transactional data and determines the top 3 spenders for each month over a 6 month period.

Requirements

- When the service is launched it will ingest data from the sample file (attached)
- The service will determine the top 3 spenders for each month over a period of 6 months
- The top 3 spenders will only take into consideration users that are using gold as a currency
- Output should be a csv file
- Each row in the output file will contain the following information:
 - Date in the format of MMM YYYY
 - First name
 - Last name
 - Total amount for that month will be displayed in grams of gold to 2dp
- Output should be ordered by descending date order, followed by descending amount for that month

Assumptions

- GGM is an internal currency code for gold
- Buying or selling gold isn't classified as a spend
- Rate defined in the sample data is what it costs for 1g of gold

Considerations

- Write unit tests wherever you see fit
- Please add any assumptions as a readme file to your submitted code

Additional questions

1. Explain architectural patterns (if any) you used developing the above service
2. Explain assumptions you've made (if any) developing the above service
3. List some of your favourite libraries that you can't live without with a brief description of why
4. What are the top 5 tools that you could not live without?