

REPORT

The code I wrote for our first assignment is, conceptually, very simple. The main file consists of the main function, where I process the given file; four functions together with auxiliary functions, which provide answers to tasks assigned by the Goldenfish Tank Team; and reports, where my results are summarized.

In the main function, each line from the Google Play Store Apps.csv file is parsed and added to an array list. Each parameter by which apps are distinguished that will be used while solving the task is initialized in the constructor. Additionally, the number of erroneous lines in the file is calculated. Function *getCategories()* solves the first task. The logic is basic – if the category that is being inspected is already in the hashmap “categories”, increment the value. Otherwise, add the category (value 1). To solve the second task, I have created an auxiliary function *getCompanyName()*. This function simply returns the first two words in the app ID. Function *getTopCompanies()* performs in a similar manner as the function for the first task. The top 100 companies are sorted in the *SaveToReport2()*. The third task compares the company’s name to the rearranged developer mail (format: last part of the mail.the part before that). If the two strings are identical, the function does not do anything. However, if they are identical, the function either adds a new developer to the *developersWithApps* map or increases the number of apps they created by 1. To resolve how many apps can be bought with a certain budget, I have created two functions. The first one, *AppsByPrice()*, returns a map with apps sorted by price. The second one returns all apps that can be bought with a given amount of money. Finally, the last task is solved as the file is processed. The results are presented in a report.

I would say the most challenging aspects of our assignment were the unexpected ones – checking whether my csv file is functional and choosing a regex (any regex). Error correction was not a smooth process either. On the other hand, the rest of the work was not that difficult to do, it just took some time. I expected the processing part to be more difficult, and I was generally expecting more obstacles than easier tasks, but that was not the case. If I were to do this assignment again, I would have a more methodic approach – I would first organize every piece of data in my head, then move on to the implementation. I would not make any drastic changes though.

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