

I approached this project by first filtering the csv file outside of my programming environment and eliminating columns that won't be necessary for the following tasks. Once that was done I started by analysing the data and creating a class TVShow that contains the data of a single TVShow. After that, I moved on to the main where I read the file using Scanner. To make things simpler for me I divided the cleaned and broken Shows in two ArrayLists. To spare on memory and to be more efficient the brokenShows ArrayList will be just strings and clean will be of the object TVShow. The concept of the tasks below are all in the try catch block to ensure that everything works. After storing the TVShows in a separate csv file I used that file in all the tasks.

- What was most challenging?

I used Java Streams and lambdas, such as in the third task, which I needed to research online to understand. I was a bit unfamiliar with that therefore, grasping that concept I found more difficult. Another thing that I wasn't as familiar with was parsing and comparing dates in the task 4. That involves additional libraries and concepts like format patterns and range validation which was confusing until going through it a couple of times and failing to parse it as well. I need a few sources to try to learn how that works and to figure out how to do that task. Another thing that was more challenging was grouping the data by language and genre. I used maps there but the logic of sorting the data with lambda functions as well as the condition of finding specific genres was difficult. The reason is that I struggled with the genre part since some of it had some signs in that column so to say that my initial approach was not sufficient to „clean“ the data aka to make the logic work in a way to separate shows properly.

- What you expected to be very hard, but it turned out to be easy work for you? (if anything)

Maps. I found the concept very hard at the beginning but with some advice from seniors, and going through additional tasks I grasped that concept and figured them out, even though I am not professional at it, I understood it better than I expected. Also writing to files I thought would be difficult.

- What you expected to be simple, but turned out to be very complex? (if anything)

Some tasks involve nested data structures like grouping by genre where each show can belong to multiple genres. I expected the parsing to be more simple but as I mentioned in the first question I struggled a bit with cleaning the file, especially the dates.

- If you are starting assignment again, what would you do differently this time?

I would separate the task by functions so that the code looks cleaner.

Start by cleaning the data and saving it to a file. Test this part fully before moving on to the tasks.

I would maybe make additional functions that do the tasks that repeat themselves, aka use helper functions for common tasks, like sorting or writing to a file.

Use logs or print statements to identify problems earlier, such as invalid rows or parsing issues.

I am kinda used to the approach of writing the class first then the main so i dont think i would do that any different. I would reaserch first to find simpler ways of parsing files and making the logic of cleaning the files.