

Week 9

Equivalence Class Partitioning

Input	Function	Output
"file1.csv"	getData(String filename)	ArrayList of entries of the csv file
"file3.csv", data*	putData(String filename, ArrayList data)	makes a csv file "filename.csv" and prints "Successfully wrote to the file."
"file1.csv", "file2.csv"	compare(String file1, String file2)	makes a new csv file "mismatch_file.csv" containing mismatch entries from file1 and file2

*where *data* is an instance of ArrayList, as it is the only valid data type for the program to input the data entries into the file.

For the Equivalence class partitioning, I chose any String that ends with ".csv" as it will be passed as a valid file format provided that the file exist in the same directory as the program.

Boundary value analysis

filename

Valid *filename*

- "file1.csv"
- "../another_folder/helloWorldTest.csv"
- ANY filename with ".csv" file extension

Invalid *filename*

- "file1.pdf"
- "img.png"
- "../another_folder/another_file.csv"

data

Valid *data*

Invalid *data*

- data instanceof ArrayList == true
- data instanceof ArrayList == false
- data is an ArrayList Object
- data is not an ArrayList Object

For *filename* and *data*, the inputs are very clear cut.

It is a valid input for a *filename* if (*filename* ends with “.csv” AND exists in the directory)

Similarly, it is a valid input for *data* if (*data* is an instance of ArrayList)

compare(String *file1*, String *file2*)

Valid inputs

- There are exactly 2 csv files with a valid *filename* as mentioned above in the same directory. (middle value)
 - To test if program can access the files from same directory.
- There are exactly 2 csv files with a valid *filename* as mentioned above in different directories. (boundary value)
 - To test if the program can access the files from other directories.

Invalid inputs

- At least one of the input files are not in the correct format. (middle value)
 - To test if the program returns an intended error message when passed an incorrect file format.
- There are no inputs/ only one input for the *filename*. (boundary value)
 - To test if the program returns an intended error message when less than 2files.
- There are more than two input files. (boundary value)
 - To test if the program returns an intended error message when more than 2files.