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CS307 PA5 Report

Implementation Details

In my program, first, I opened the database.txt and read the names, surnames and genders to 3 dynamically allocated global arrays. By doing this, I tried to reach the desired information while manipulating txt files.

After that my program recursively explores the current directory to find sub-directories and txt files in them. While doing this, it opens txt files and tries to manipulate them.

In order to manipulate txt files, my program employs fseek and fput functions to manipulate found names that are on the database. To do that, my program tries to detect "hon" part i.e. Mr. or Ms., then it parses the next two words as name and surname respectively and checks if the name is in the database or not. If it is in the database, it checks that gender and surname of a given person are correct or not and if they are not correct, via setting the cursor with fseek to the starting position of the hon/surname and change them with fput according to the correct version in the database.