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Regional Cell Phone Number Location Tracker

This software is designed to identify the cellphone numbers that appear in a set of regions specified within a time frame. Suppose the following case: The police department of Puerto Rico has received various reports of similar crimes in the past week, it is suspected that all the crimes have been committed by one criminal. The PD (Police Department) has contacted different cellphone servers and received a list of all the numbers that appeared in each region where each crime was committed during that week. Your job is to identify which cellphone number has appeared at every single crime location. This will help narrow down the list of possible criminals and capture him quicker.

INPUT

This software receives files with cellphone numbers as input. Once the program is ran, you must specify m and n values. The m value represents the amount of lists that have been submitted by each cellphone server. The value n represents the amount of servers that have submitted lists. The program will scan $m \times n$ files and verify the intersection of cellphone numbers between them. That number which appears within all the files will then be added into an arraylist of possible criminals.

OUTPUT

The output created is a file with all the numbers which have been found to have more than n appearances or are found to be in the intersection of all the files.

HOW TO RUN

To run the program go to the folder where P1 is and press shift and right click. When in the command prompt write the following line: `"java -classpath ./bin p1MainClasses/Part2Main n m isize fsize istep rep"` with the values that you desire for. If none of the parameters are included in the javac command, then they are all initialized to the default values given.