Colin Glory

Project 1 Java Code Results

Game.java

Text, letter

Description automatically generated

This program was a Monty hall type java program. It is based on a TV show game that features one prize behind one of three doors. Contestants pick a door, then the host will reveal a door that has no prize. The host will then ask the contestant to keep their same door or change the door. Changing the door in this situation will always have a higher probability of getting the prize, than keeping the same door.

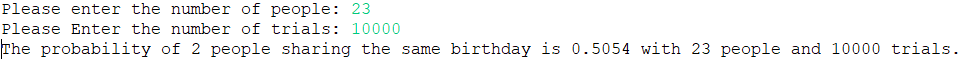
StatsLibrary.java

Text

Description automatically generated

Stats Library’s main focus is to be a calculator for students to use for various problems. The main formulas that this uses is mean, median, mode, standard deviation, geometric/binomial distribution, factorials, combinations, and permutations. Realistically, any student should be able to use this with whatever numbers they choose. Factorials can’t go past “20!” without getting an error, so Big Int would have to be implemented.

Birthday.java



Here we have a program based on user input that finds the probability that two people share a birthday given the amount of people and amount of trials. Typically if there are 23 people in a room, then there will be around a 50% chance that two people share a birthday.

SetOperations.java

Text, letter

Description automatically generated

In Set Operations, it heavily focused on sets and what a user can do with them. This programs main functionalities include being able to find the intersection, union, and complement of two lists.