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Stats Library

In this portion of the project, a library of various statistical methods was created to calculate answers to homework questions. Included in the library is every formula from chapters one through three up until the mid-term. The methods in the class include Standard Deviation and Variance, Central Tendencies (Mean, Median, and Mode), Set Operations, Factorial, Permutations and Combinations, determining dependency and independency, Conditional Probability, Binomial, Geometric, Hypergeometric, and Negative Binomial Distributions (all including their respective Expected and Variance formulas). A test class is included which creates an ArrayList of numbers to test the Central Tendencies methods through a test object. The test object calls the respected methods. For the distributions, when the test object calls those methods, parameters are passed in so the distribution can be calculated. Displayed below is the output of the stats library program.

