### **Explanation of Methods**

* **calculateAverageStockPrice**: Takes an integer array of stock prices, calculates the total, and returns the average. Best used when prices are fixed in size.
* **findHighestStockPrice**: Loops through the array to determine the highest stock price, helping in performance evaluations.
* **countTargetPriceOccurrences**: Counts how many times a specified price appears in the array. Useful for identifying trends or price spikes.
* **generateCumulativeStockPrices**: Builds a new list from an ArrayList of prices, where each element represents the cumulative sum up to that index. Helpful for plotting stock growth over time.

Output: