**Analysis of Financial Time Series: EURO/USD Exchange Price**

**Complexity Analysis**

1. **Reading Data and Finding Average:**
   * Reading data and finding the average would still take *O*(*n*) time, where *n* is the number of exchange rates.
2. **Building Max and Min Heaps:**
   * Building heaps from the vector of exchangeInfo structures, each containing *n* elements, would still take *O*(*n*) time per heap.
3. **Finding Max and Min Values:**
   * Retrieving the *N* maximum and minimum values from the heaps would take *O*(*N*) time, where *N* is the number of values requested.
4. **Finding Maximum Subsequence Sum:**
   * The time complexity for finding the maximum subsequence sum remains *O*(*n*), where *n* is the number of exchange rates.

The overall time complexity of the main function remains *O*(*n*), where 𝑛*n* represents the number of exchange rates.

**Example Outputs**

**A screenshot of a computer screen

Description automatically generatedA screenshot of a computer

Description automatically generated**