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**Exercise 7: Financial Forecasting**

Scenario:

You are developing a financial forecasting tool that predicts future values based on past data.

Steps:

1. Understand Recursive Algorithms:

o Explain the concept of recursion and how it can simplify certain problems.

2. Setup:

o Create a method to calculate the future value using a recursive approach.

3. Implementation:

o Implement a recursive algorithm to predict future values based on past growth rates.

4. Analysis:

o Discuss the time complexity of your recursive algorithm.

o Explain how to optimize the recursive solution to avoid excessive computation.  
