1. **Discuss the time complexity of your recursive algorithm.**

The time complexity of the recursive forecast method is O(n), where n is the number of periods (time). This is because the method makes a recursive call for each period.

1. **Explain how to optimize the recursive solution to avoid excessive computation.**

To optimize the recursive solution and avoid excessive computation, we can use memoization to store previously calculated values. This way, we don't recompute values for the same inputs.

Memoization significantly reduces the number of recursive calls, improving the performance of the algorithm.

The time complexity remains O(n), but the actual computation time is greatly reduced due to the elimination of redundant calculations.