**Recursion Concept:**  
Function calls itself with reduced input. Useful for repetitive calculations.

**Recursive Growth Function:**

java

double forecast(double baseValue, double[] growthRates, int year) {

if (year == 0) return baseValue;

return forecast(baseValue, growthRates, year - 1) \* growthRates[year - 1];

}

**Time Complexity:** O(n)  
**Optimization:** Use **Memoization** or convert to an iterative method to improve performance.