**Step 1: Understand Recursive Algorithms: -**

Q1) Explain the concept of recursion and how it can simplify certain problems.

Solution: -

Recursion: A method of solving a problem where a function calls itself as a subroutine.

This allows the function to be repeated several times as it breaks the problem down into smaller, more manageable pieces.

Recursion can simplify certain problems by breaking them down into simpler sub-problems, which can be easier to solve and understand.

**Step 4: Analysis: -**

Q1) Discuss the time complexity of your recursive algorithm.

Solution: -

The time complexity of our recursive algorithm is O(n) where n is the number of years.

Each recursive call reduces the problem size by one year, leading to a linear number of calls.

Q2) Explain how to optimize the recursive solution to avoid excessive computation.

Solution: -

Recursion can lead to excessive computation if the same values are recalculated multiple times.

In more complex recursive problems, memorization can be used to optimize the solution and avoid recompilation.