# Recursive Algorithm:

**Recursion** is when a method calls itself to solve smaller instances of the same problem.]

Analysis:

#### **Time Complexity**

* Each recursive call does one multiplication and one recursive call.
* There are n such calls (n = year), so time complexity is **O(n)**.

**Space Complexity**

* Each recursive call is stored on the call stack until the base case is hit.
* So, stack depth is n, and space usage is also **O(n)**.

Code Solution:

