**Time Complexity for the Recursive Algorithm:**

Recursive is a type of algorithm methodology, where the function calls itself until the base condition is satisfied. This helps in reducing a complex problem in smaller subproblems which reduces the complexity.

**Time complexity:**

* The recursive algorithm has time complexity of O(n).
* For each recursion, one calling and one operation is done i.e. for ‘n’ number of years, there are of ‘n’ number of recursive calls.
* Here, the total work which is being done is linear with respect to ‘n’.
* There exists no overlapping of subproblems present.
* Getting rid of overlapping helps to not reuse operation with already exhibited conditions, hence no extra storage is required.