**Optimized Method for Recursion Solution:**

**Problem:**

* The recursive calls are being added to the stack when called every time.
* This causes the issue of stack overflow and no more calls can be made for large values of ‘n’

**Solution (Iterative Method):**

* Using an Iterative method (using for loop) can help, since it doesn’t use stack.
* It has a time complexity of O(n) and space complexity of O(1), cause the stack is not being used for space.

**Program:**

