


CHALLENGES 0





WHAT'S THE TOP-DOWN **TOPIC 01:** APPROACH AND HOW TO APPLY TO THE ASSIGNMENT?



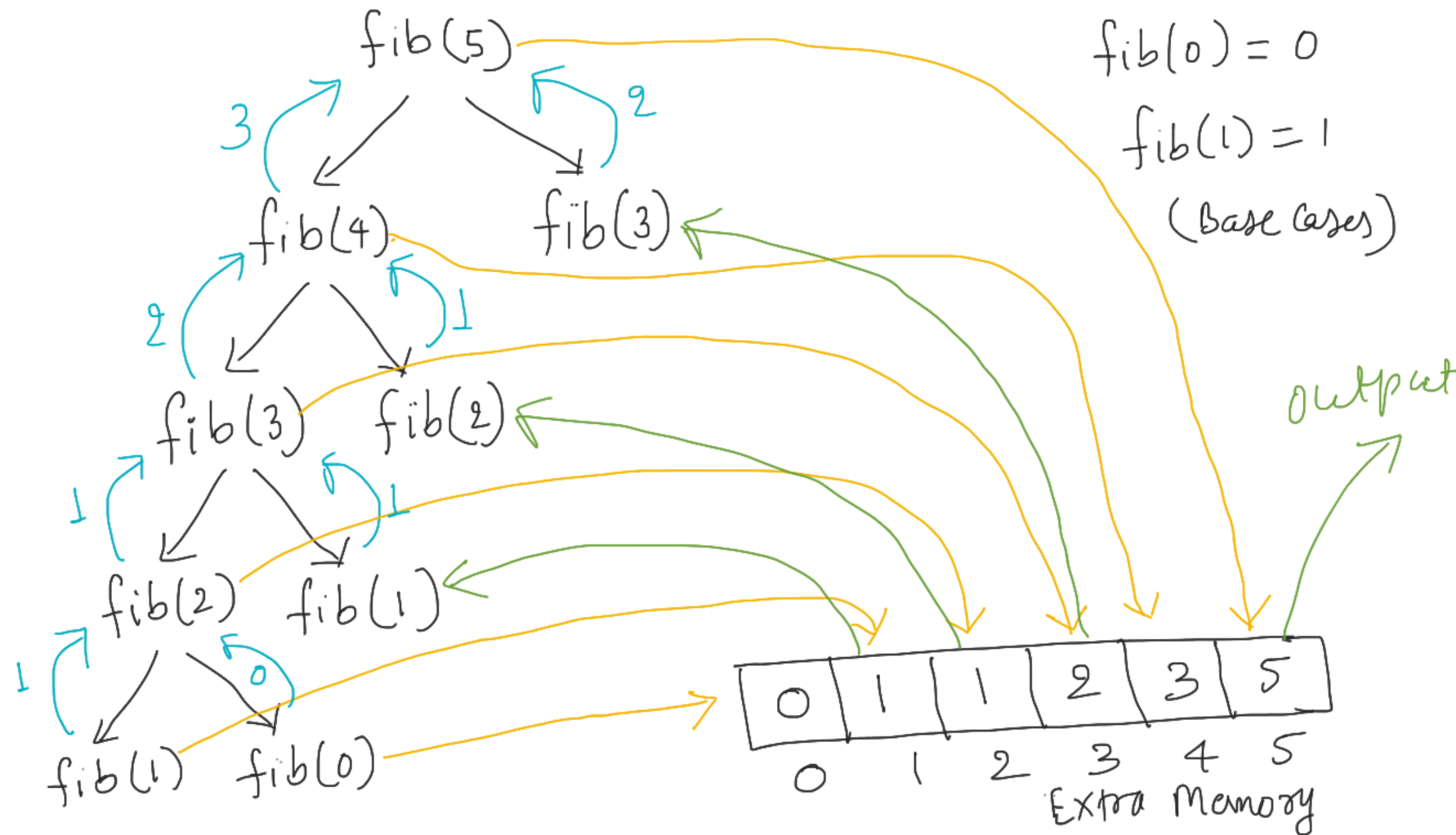
WHAT'S A TOP-DOWN APPROACH?

- In the top-down approach, first, look at the whole system and start breaking it into parts called modules. Keep breaking these modules until they can't be broken anymore. This process, known as '**modularization**', keeps the algorithm unchanged.
- This method helps solve big problems by dividing them into small, independent parts and then repeating the modularization process. It's a great way to create software from scratch when you don't know the specific details.



WHAT'S A MODULARIZATION PROCESS?

Finding the 5th Fibonacci using top-down approach.





HOW THE TOP-DOWN APPROACH WORKS?

1. Define a clear and measurable main objective or problem.
2. Modularize by breaking it into sub-modules.
3. Address each sub-goal through modularization, minimizing them for better manageability.
4. Iterate steps 2 and 3 until the overall objective or problem is resolved.

APPLY THE TOP-DOWN APPROACH TO THE ASSIGNMENT

- Researching the top-down approach for this assignment reveals a major goal. Challenges within the program are smaller modules of a larger objective. To make it feasible and measurable, we break these down into smaller, manageable units.
- For this topic, we've divided it into three modules:
 - Apply the top-down approach to the assignment ---> How it works ---> Learn about the top-down approach.

THANK YOU

