

JOURNEY TO YOUR BEST

CHALLENGE 0: WHAT'S YOUR CURRENT VERSION?







WHAT'S THE TOP-DOWN

TOPIC 01: APPROACH AND HOW TO USE IT?





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WHAT'S A TOP-DOWN APPROACH?

- The approach from top-down is a method of problem-solving by looking at the overall system/problem first, and then breaking it down into smaller parts.
- It keep breaking these modules until they can't be broken anymore. This process, known as '**modularization**'.



WHAT'S THE MODULARIZATION PROCESS?

1. Clearly define the main goal.
2. Divide it into independent modules.
3. Further break down each module.
4. Handle each module independently.
5. Repeat steps 2, 3, and 4, adjusting for clarity and efficiency



**WHY SHOULD ONE USE A
TOP-DOWN APPROACH?**



ADVNTAGES OF TOP-DOWN APPROACH

1. Understand the overall system and structure before delving into details.
2. Clearly grasp the goal that needs to be achieved.
3. Manage details effectively by breaking down large modules into smaller, independent ones.
4. Easily adjust and update when issues arise without affecting other modules.
5. Save time.

DISADVANTAGES OF TOP-DOWN APPROACH

1. Difficult to change the approach once the project has started.
2. Easy to overlook opportunities or important details.
3. Dependency on the initial design provided.
4. Waste of time
5. It isn't always the best solution.

WHEN SHOULD A TOP-DOWN APPROACH BE USED?

- The problems are complex.
- Understand the big picture before delving into details.
- Knowing the final output.



WHERE SHOULD A TOP-DOWN APPROACH BE USED?

- The top-down approach is versatile and applicable in any context.
- It can be utilized at all levels.
- It is most effective for problems that already have optimized and efficient outputs.



WHO THE COMPANIES USING TOP-DOWN APPROACH?



1. Microsoft

Post: [Microsoft's Bottom-up and Top-down Approach to change its Siloed Culture](#)



2. Apple

Post: [Apple vs. Google: Top-down vs. Bottom-up Innovation](#)

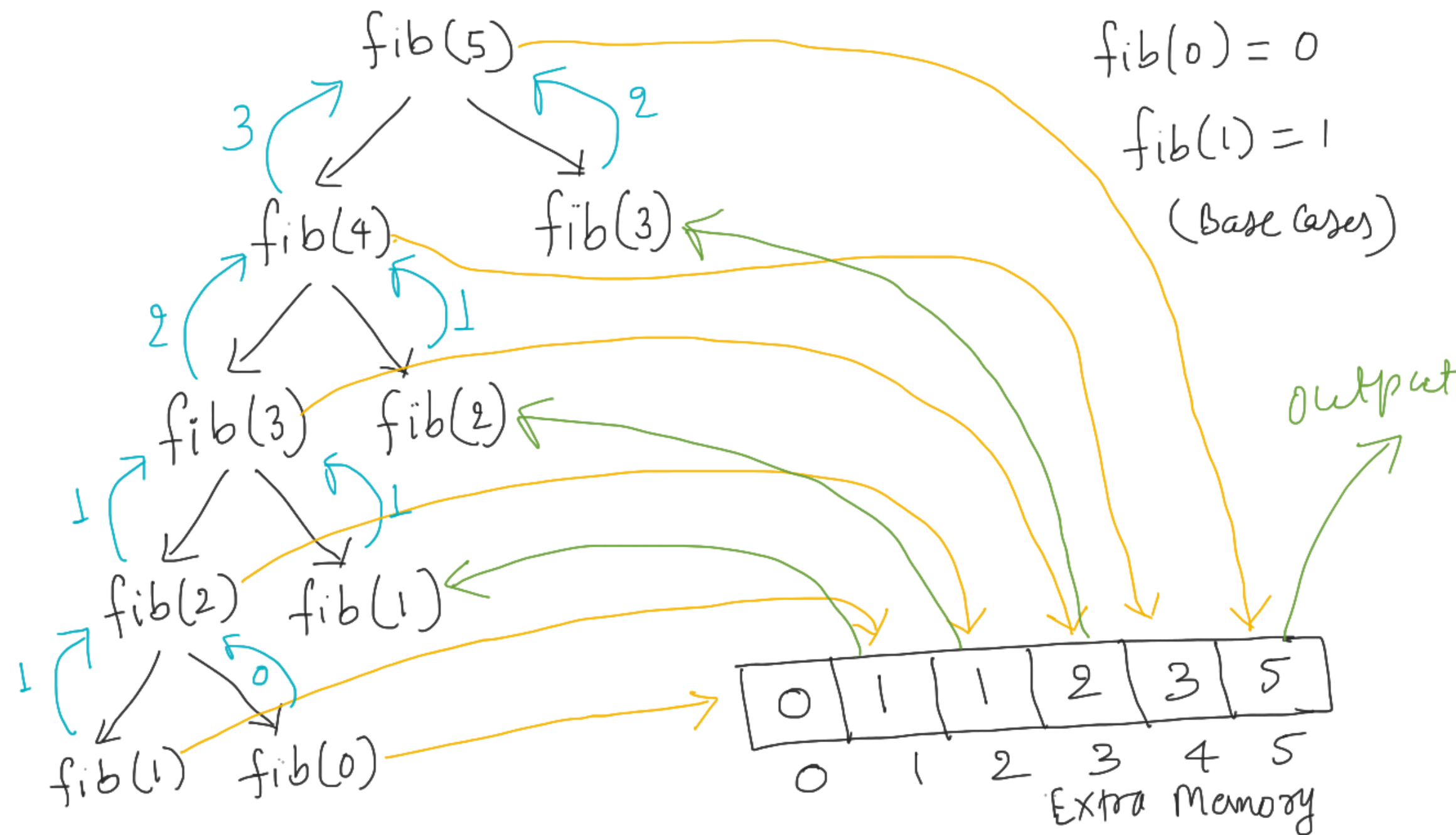


3. Amazon

Post: [Scaling the Cloud: A Journey into AWS with a Top-Down Approach](#)

HOW DOES THE TOP-DOWN APPROACH WORK?

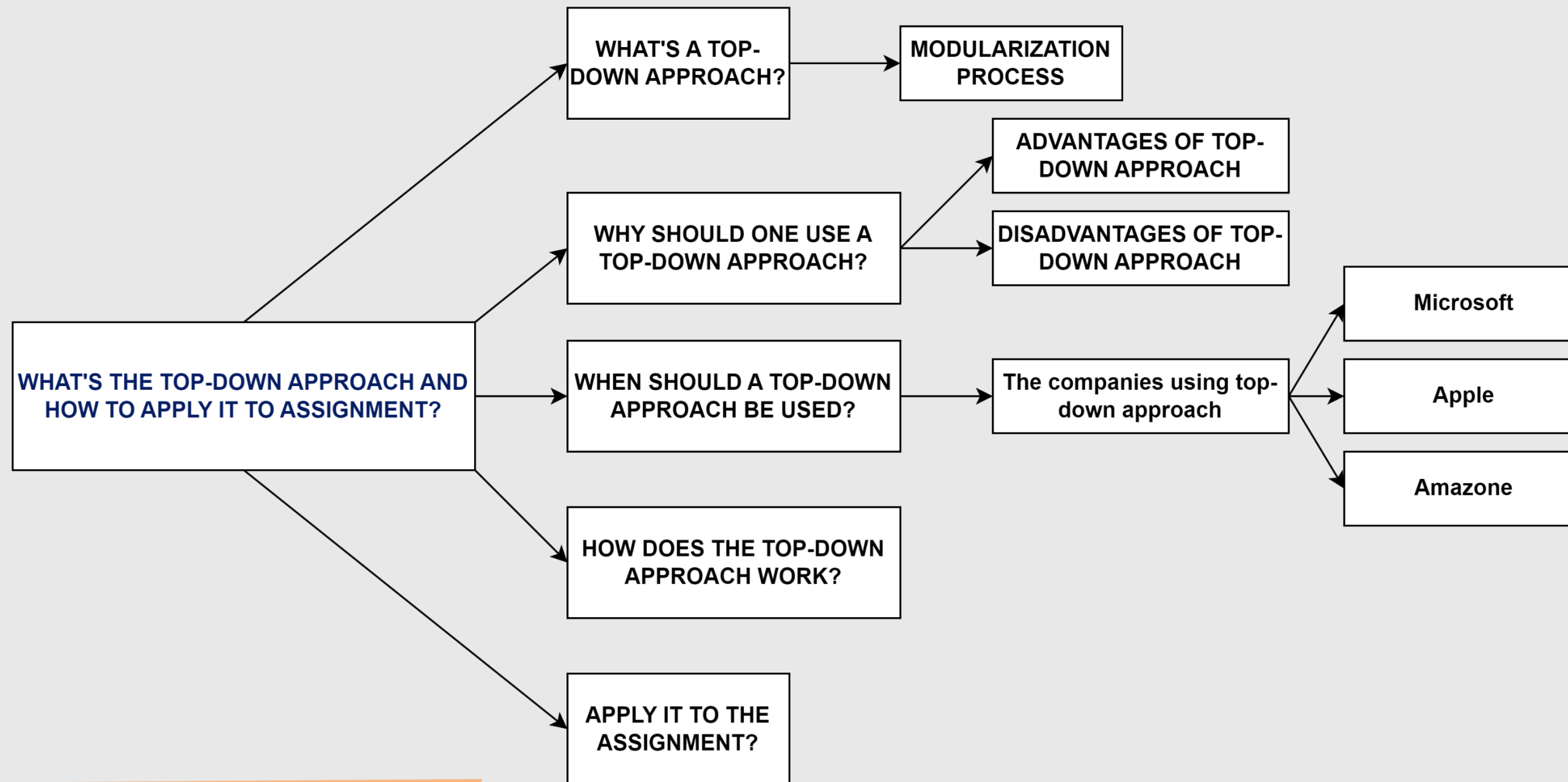
Finding the 5th Fibonacci using top-down approach.



HOW TO APPLY THE TOP-DOWN APPROACH TO THE ASSIGNMENT?

- The assignment aims to turn us into good developers. Challenges are the branches stemming from this main goal, each with its own difficulty level suited to individual abilities.
- The end goal may differ for each person (BA, DA, FE, BE, etc.), but the overarching objective is clear: successfully complete the program, become skilled in the IT field, and land a job.

CONCLUTIONS



THANK YOU FOR READING

Challenge-0: topic 1_TNam2130

