

# Dynamic Programming

(1)

- These lecture notes on the concept of "dynamic programming" is inspired by the fantastic playlist of videos put together by "Aditya Vora" on YouTube.
- Dynamic programming is one of the key problem solving techniques a programmer can have under his/her arsenal. We will see the reasons as to why this is one of the most important techniques to learn and under what circumstances does it find use throughout this lecture series/notes.
- A general observation that has been done across students trying to solve/approach the problem using the concept of dynamic programming is that they usually start the problem first hand by directly drawing/populating a matrix like so:

(X approach)


(this approach is usually taken by students who are trying to memorize the solutions to the problems)

NOTE: One should never directly start drawing a table when they see or are told that a particular problem can be solved using dynamic programming. This way one could never be able to assimilate the concept of dynamic programming.