Dynamic Programming

It’s basically enhanced recursion. Wherever we can apply recursion there’s a scope for DP.

We apply DP mostly for two scenarios

* Choice (Backtracking problems) (2 or more choice)
* Optimal (find min, max, smallest, largest etc)

How to approach the coding part of DP

* First write the Recursive solution
* Then try to store solutions of sub problems using bottom up or top-down approach, theory on the same in below link
* Try the memorize/top-down approach as it’s easier, if that doesn’t work in terms of runtime try out the bottom-up approach

<https://www.geeksforgeeks.org/tabulation-vs-memoization/>

Top DP Problems

