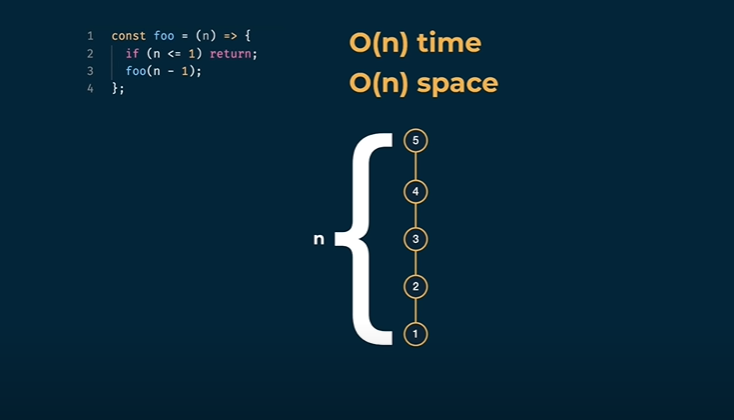
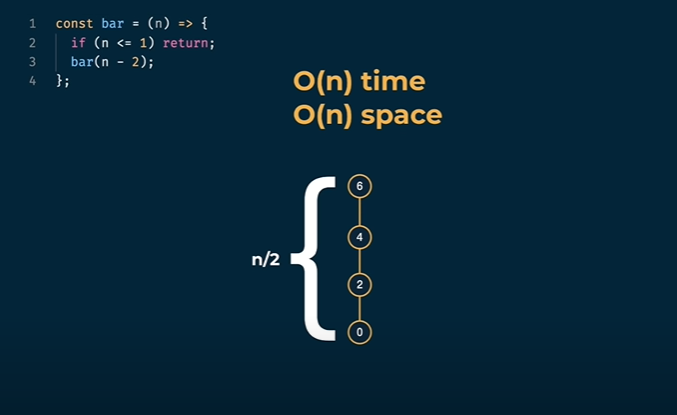
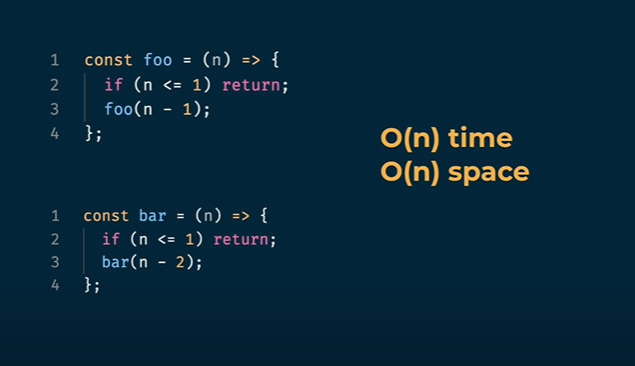
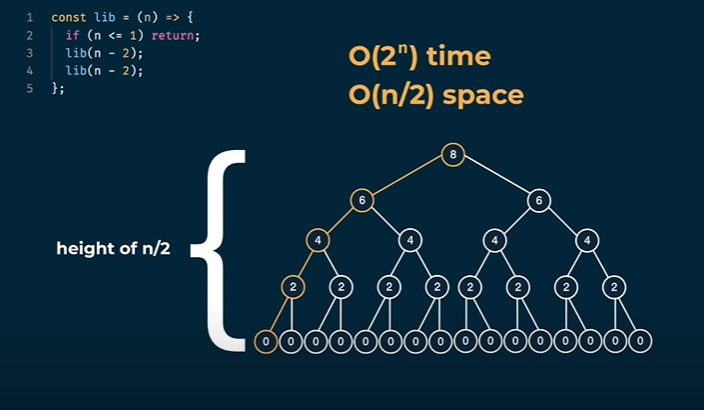
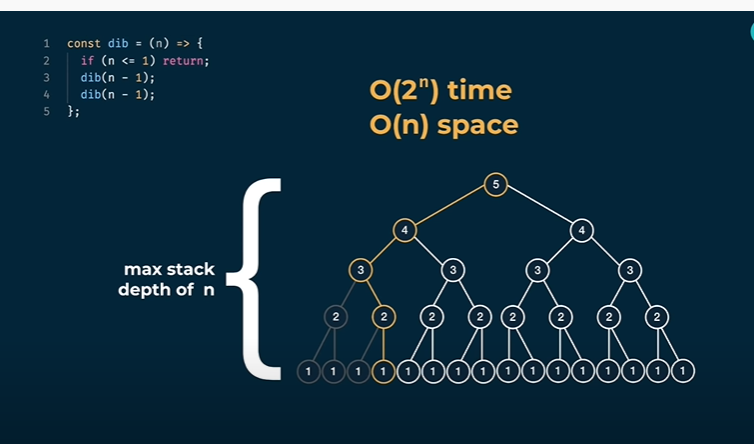
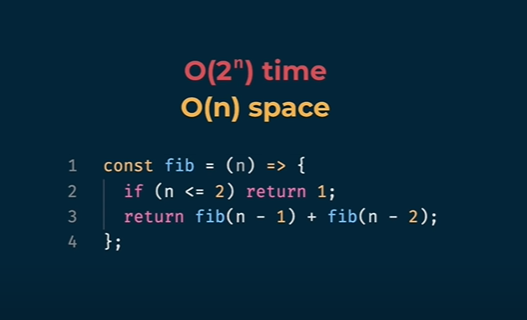
**Time Complexity:**



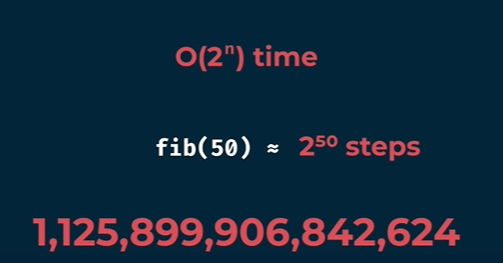






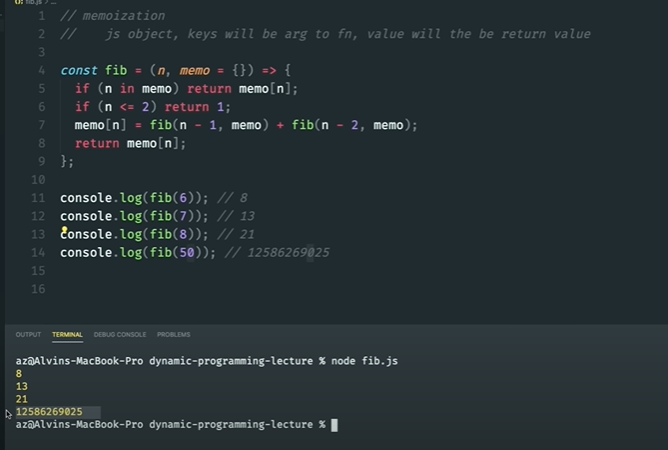


Because right now we are not using DP.

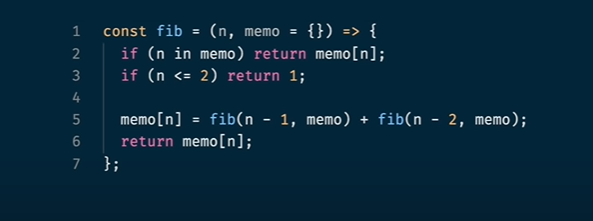


Very large time.

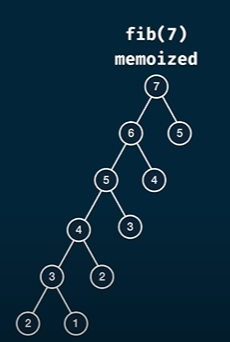
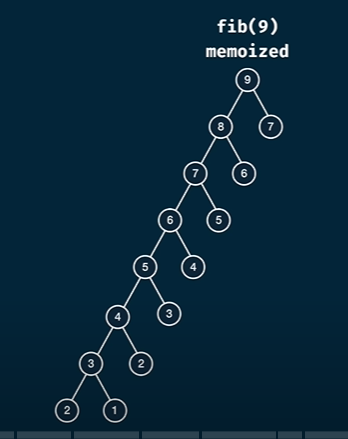
JS Code:



We are using memorization and storing the result of previous ones and using them later.

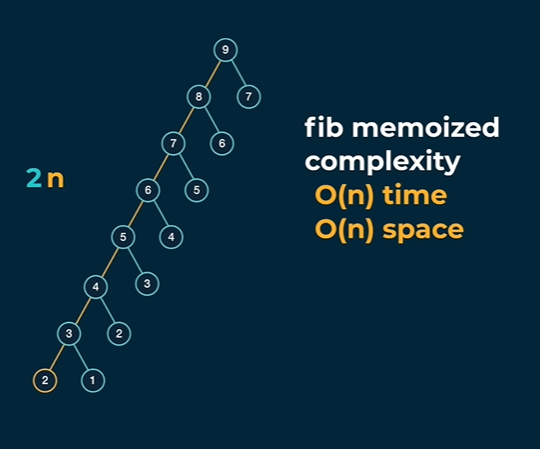


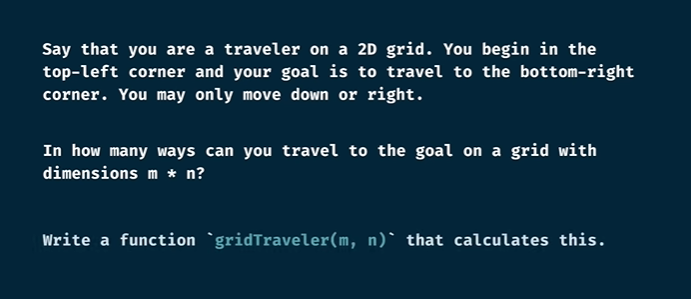
With DP:

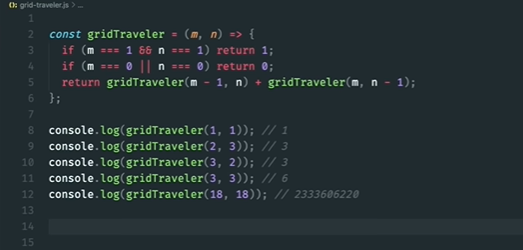
And so on….

TC for memorization:

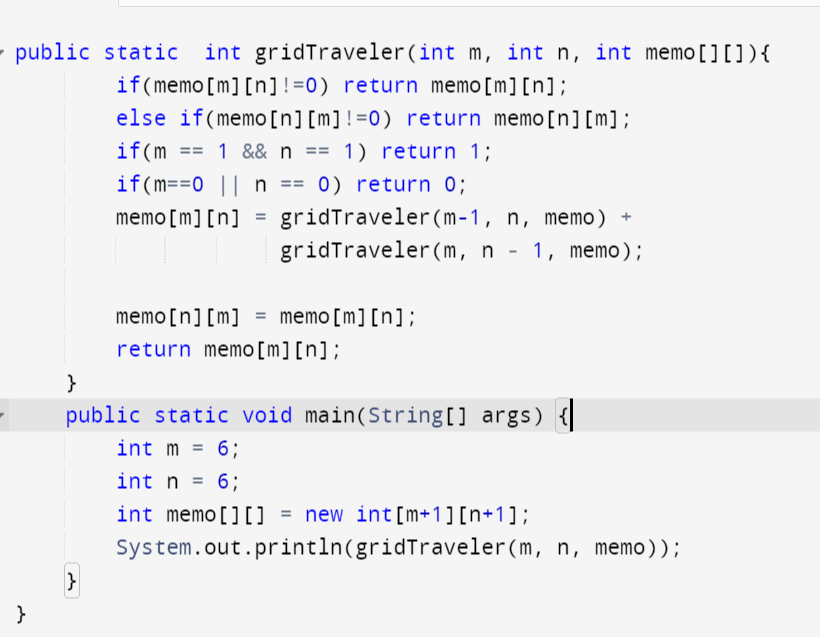




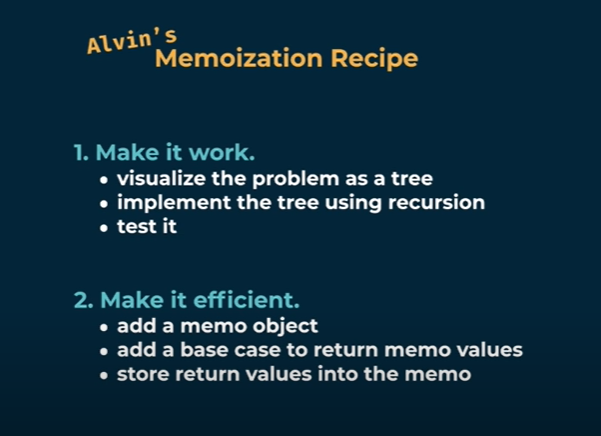
In JS(Without DP):



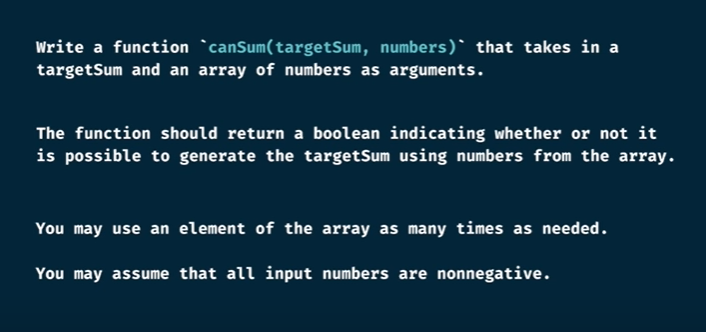
With DP(Java):



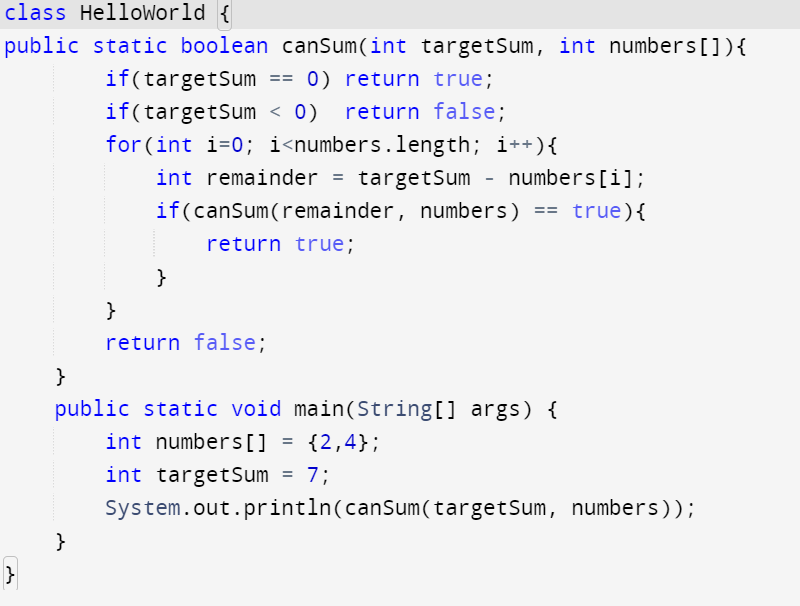
How to do memorization:



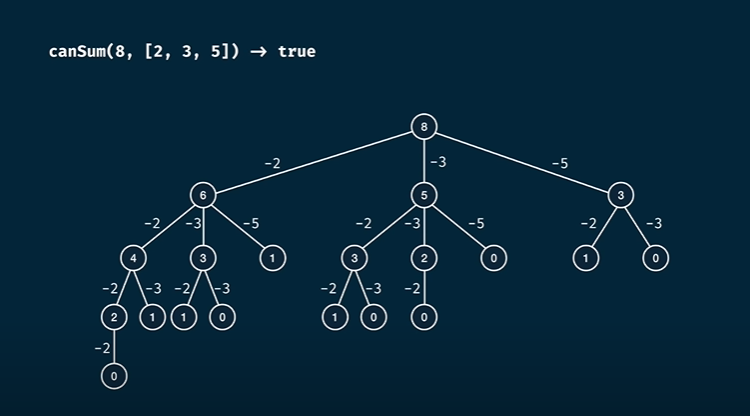
Problem:

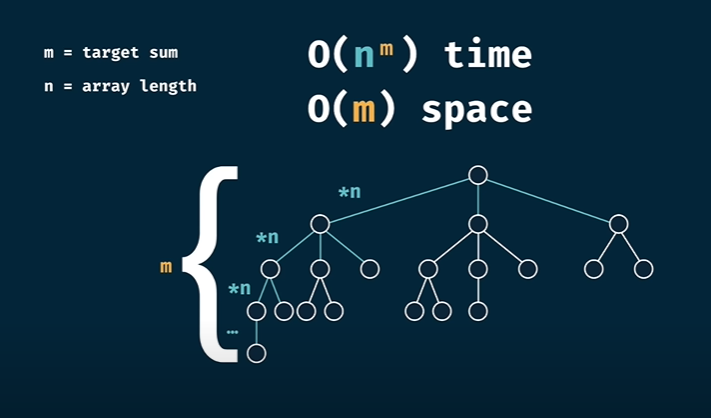


Without DP:

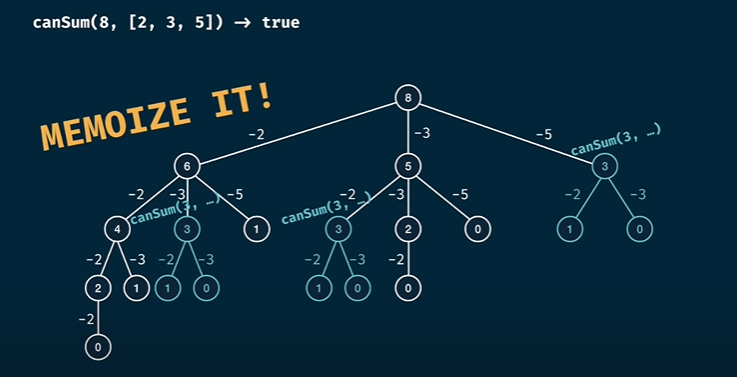


TC:

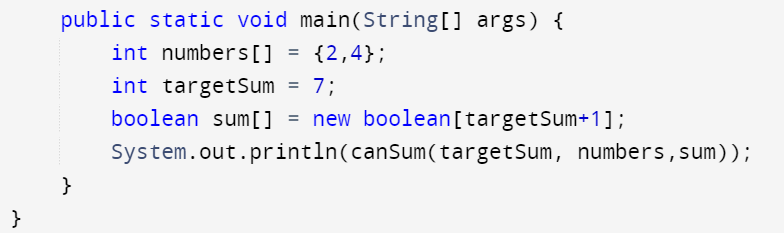
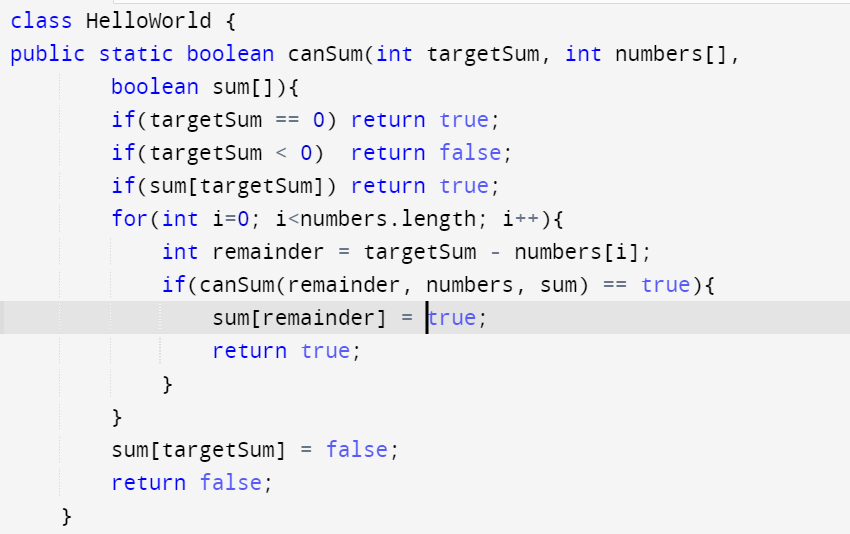


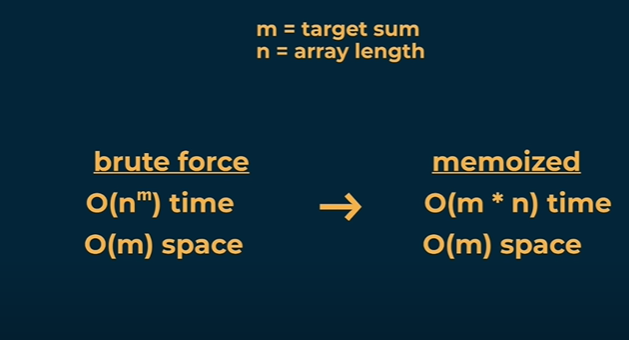


To use DP here. Look at the overlapping sub problems.

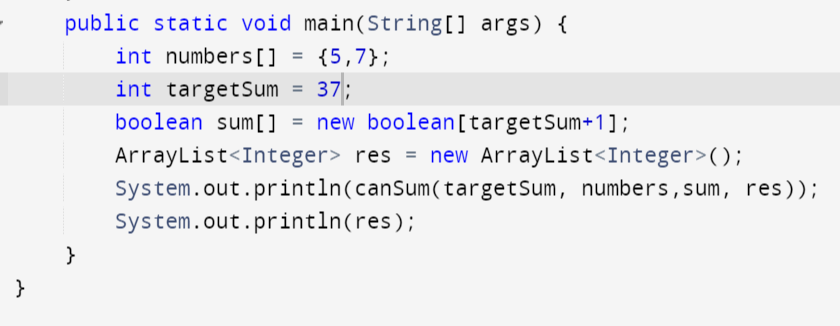
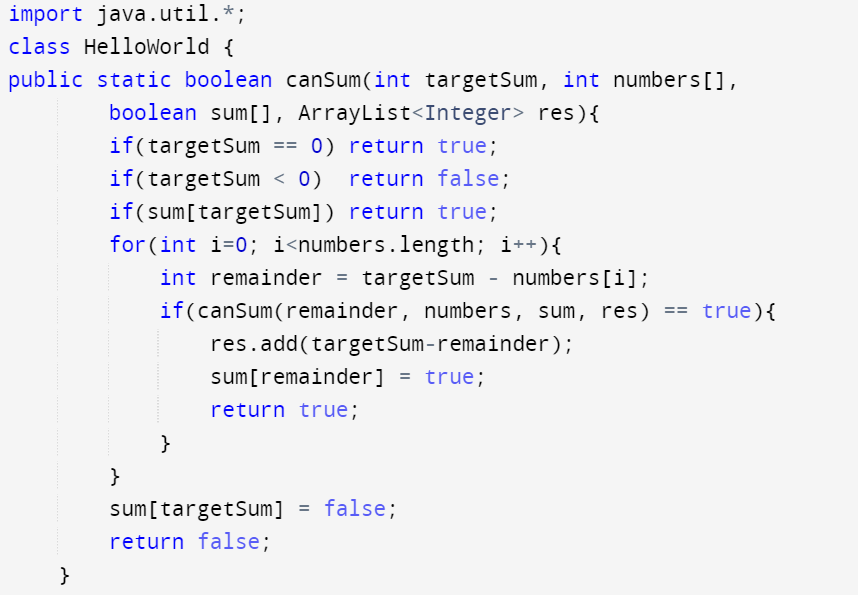


With DP:

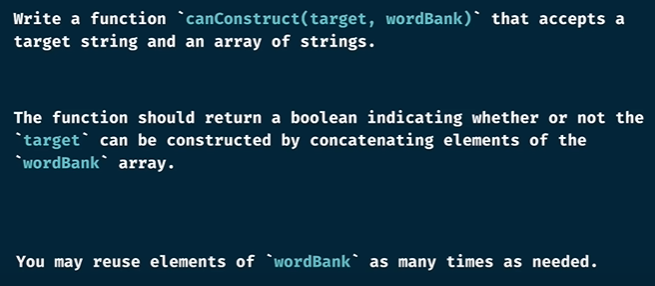


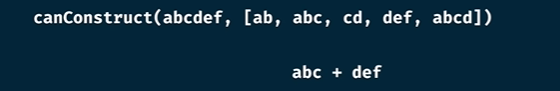


If we also want to know which array returns the result:

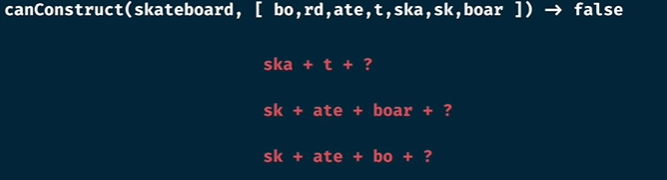


Next Problem:





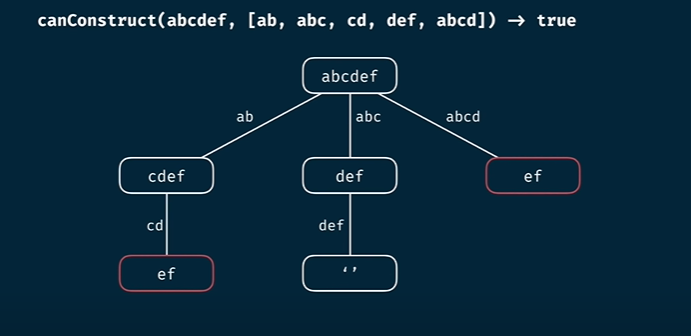




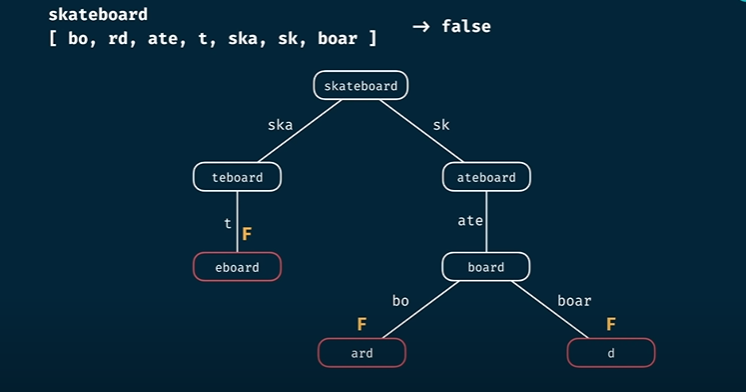
Base Cases:



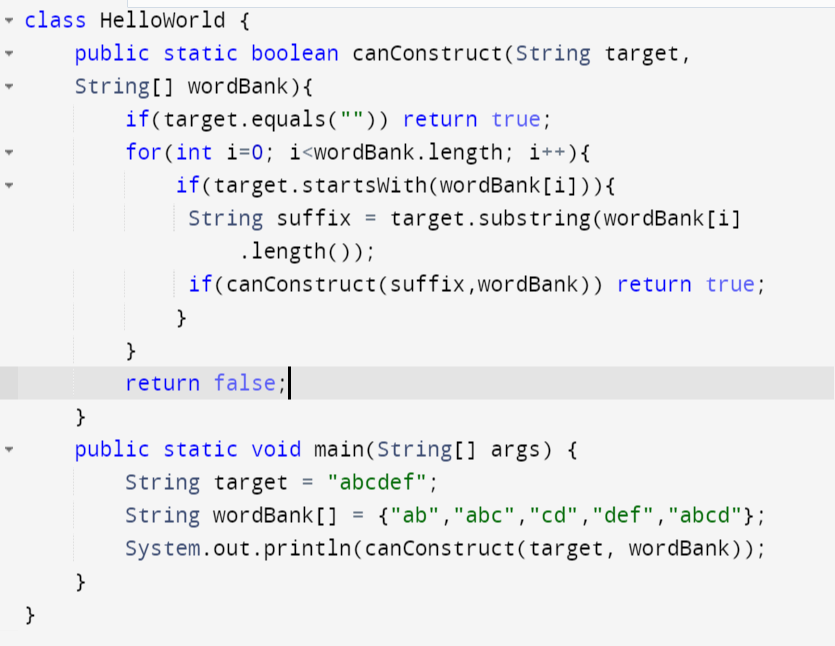
Logic:



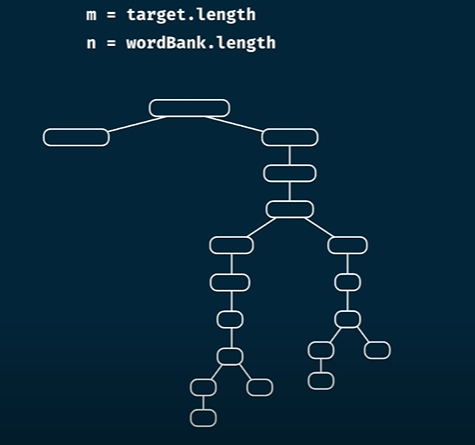
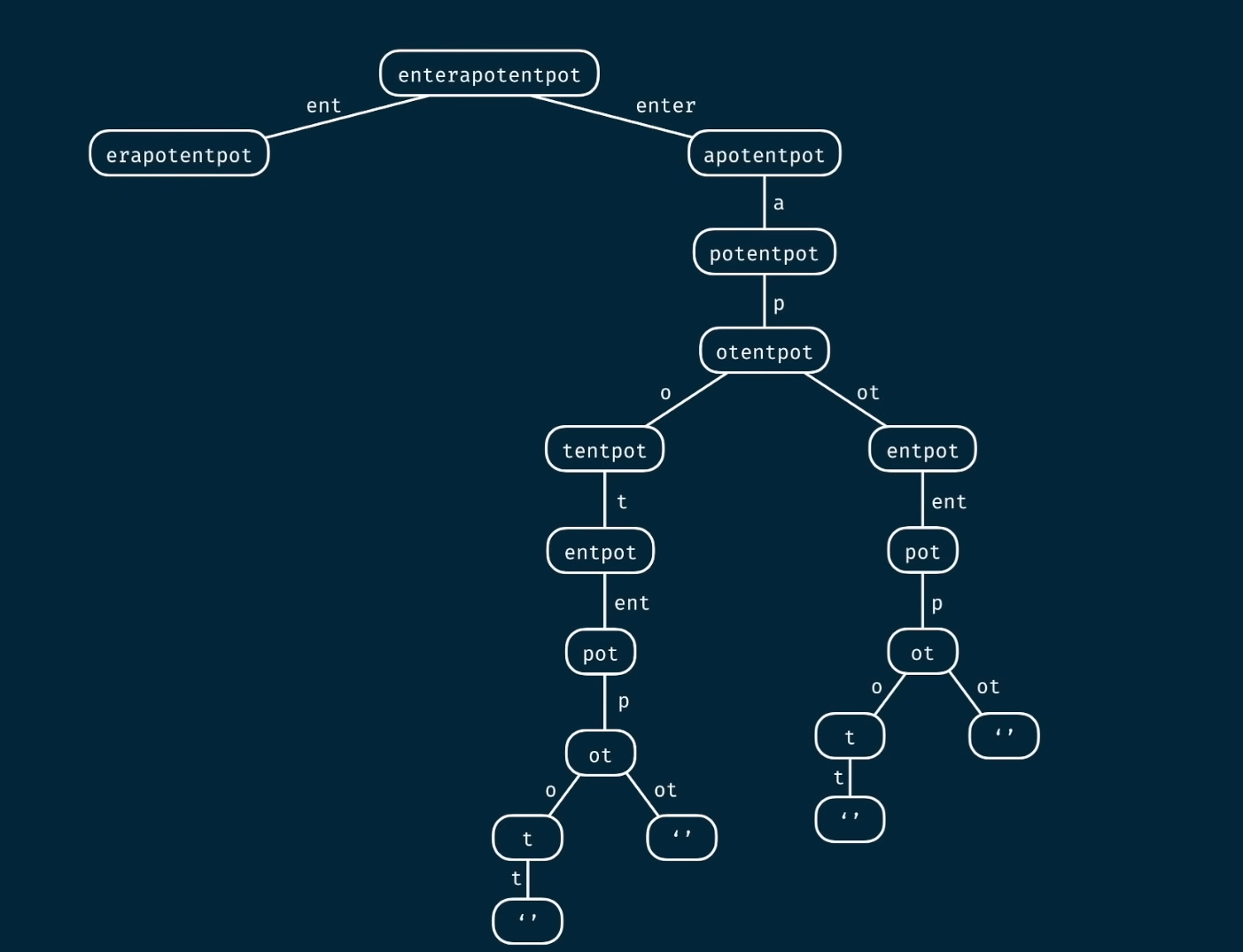
Only take those elements from the wordbank which are prefix to the targetString.



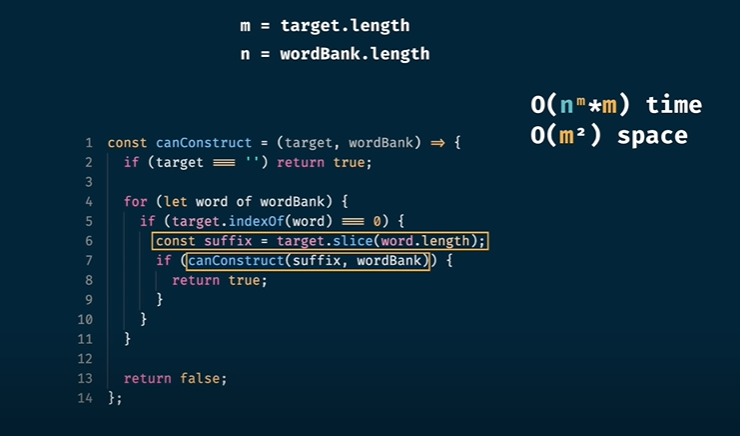
Java Code without DP:



For TC:



TC and SC:



TC with DP:

