Backtracking Video - 1.



Leetcode -140

it was easy...

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Meta Phone Screen Round

140. Word Break II







Given a string s and a dictionary of strings wordDict add spaces in s to construct a sentence where each word is a valid dictionary word. Return all such possible sentences in any order.

Note that the same word in the dictionary may be reused multiple times in the segmentation.

Example 1:

Input: s = "catsanddog", wordDict = ["cat","eats","and","sand","dog"]

Output: ["cats and dog", "cat sand dog"]

Example 2:

Input: s = "pineapplepenapple", wordDict = ["apple", "pen", "applepen", "pine", "pineapple"]

Output: ["pine apple pen apple", "pineapple pen apple", "pine applepen apple"]

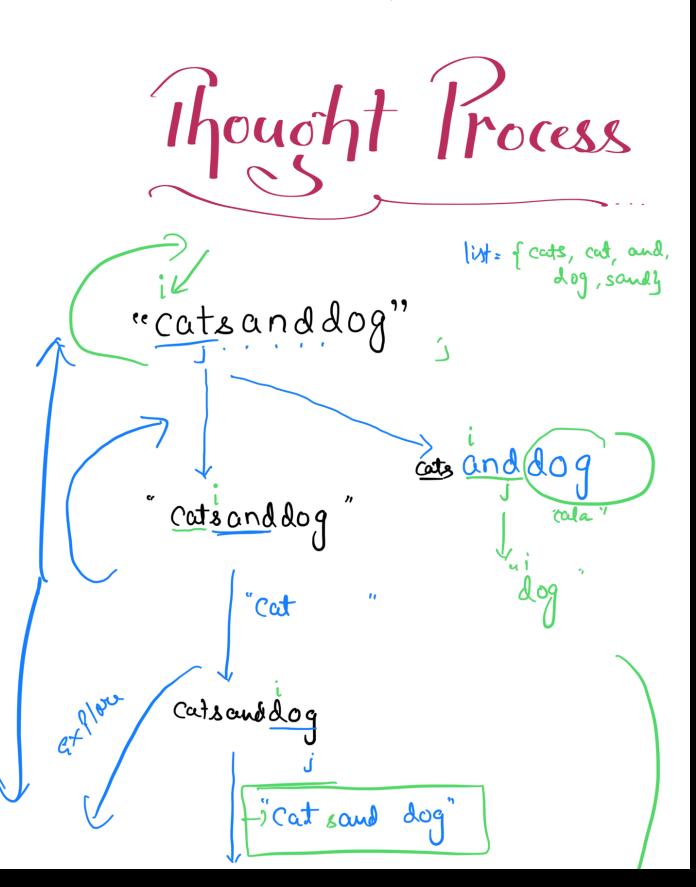
Evaluation. Mate that you are allowed to rouse a distingary word

Example 3:

Input: s = "catsandog", wordDict = ["cats","dog","sand","and","cat"]

Output: []





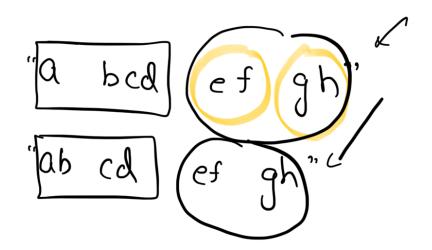
catsand dog (out of bound) result. Pul. b. (Sut) ; "(at sand dog" Cab and dog for (j=i; j<n; j++)} T (validwand) S

S. SUbytr (i, j-i+1) / (S[i:j] Sentuce += word)

Solve (j+1, S =) undo//. 20 Tic = 0(2h) possibilities. S.C = 0(n)

Can we try memoizind Approach-1

list = f "a", "bcd", "ef", "gh", "ab", "ab", "cd" }



ab cd efgh bcdefgh bcd cdefgh bcd cdefgh efgh Solve (i, CwarSentence, s)

(int, string)

Another Simple Approach

cat soul day
cat soul day
cat soul day
cats and dog"

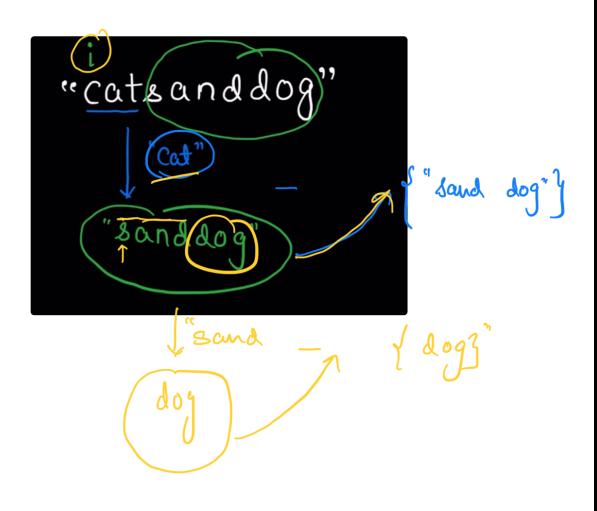
cats {"and", "log"}

and dog

Recur

Real of the second seco







abc de f ")

"abc d ef"

$$T \cdot c = O(2^n) panil$$

$$Sc = O(2^n).$$

() Iterative.

() Trie.