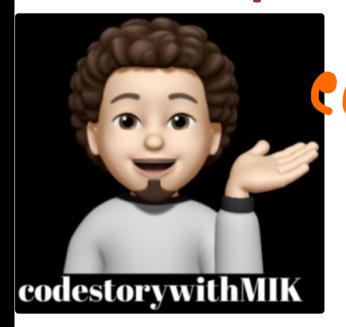
Recursion Concepts & ans...

Motivation (भाषण)



video 15 Hard work is the bridge between dreams and reality. The more effort you put in, the closer you get to your GOAL.

codestory with MIK

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Company : SAMSUNG

22. Generate Parentheses

Medium

\rightarrow Topics

Companies

Given n pairs of parentheses, write a function to generate all combinations of well-formed parentheses.

 \rightarrow 2*n

Example 1:

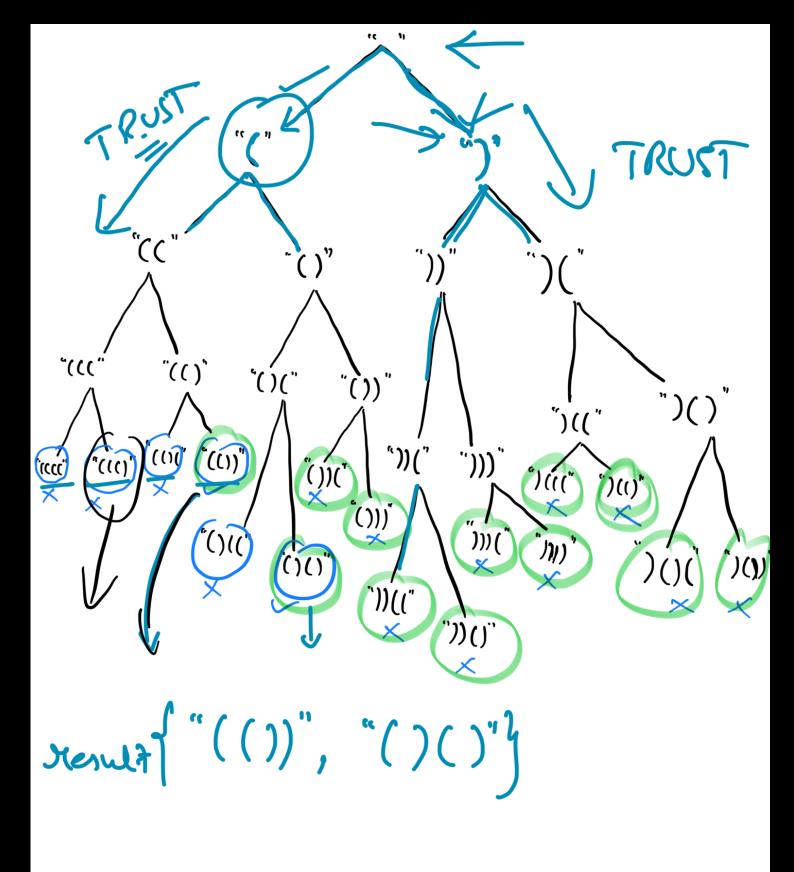
Input: n = 3

Output: ["((()))","(()())","()(())","()(())","()()"]

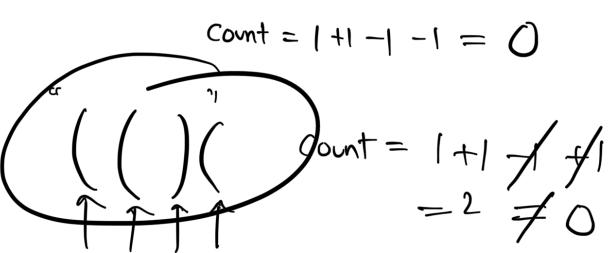
() Generate [> Combinations } Backt-() Recen).

Thought Process

 $)\leftarrow n=2 \rightarrow open=(($



Solve (Curur, int n) { I (Coor. length()== 2xn) } if ((coor) is valid) stepult-p-1 (coor); Cwar. Push-back ("("); > Solve (cook, n); //TRUST Explore -> Cwer. Pop-backl); undo > Cwor. push_back (")"); solve (cov, n); //TRUST undo - (ww. pop_back(); is Valid (Coor): " (()) "



T.C:

n pairs

2×n

20 ptions 20 pc

2 Possibiliter.

$$\int_{-\infty}^{\infty} O\left(2^{2n} \times 2n\right)$$

Approach - 2

(Better) ...

$$I_1 = 2$$

$$I_2 = 2$$

$$I_3 = 2$$

$$I_4 = 2$$

$$I_4$$

close = 2

n=2

1 < 2

Story Points:

Same as Approach-1 with safety check. No need of isvalid(). T.C: $\Rightarrow O(2^{2n})$ n > (Catalan rumber)