/\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* FIND ALL SUBSETS \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\* Leetcode 1: <https://leetcode.com/problems/subsets/>

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**Explanation:**

Initial call -

backtrack(0,[])

result = [[]]

1) first Iteration:(i=0 to 2)

-> subset = [1]

-> bactrack(1,[1])

result = [[],[1]]

2) second Iteration: (i=1 to 2)

-> subset = [1,2]

-> backtrack(2,[1,2])

result = [[],[1],[1,2]]

3) Third Iteration: (i=2 to 2)

-> subset = [1,2,3]

-> backtrack(3,[1,2,3])

result = [[],[1],[1,2],[1,2,3]]

Loop End;

backtrack subset = [1,2] **(bactracks at end of all iteration)**

backtrack subset = [1]

3)Third Iteration: (i=2 to 2) [1,2,3]

subset = [1,3]

backtrack(3,[1,3])

result = [[],[1],[1,2],[1,2,3],[1,3]]

backtrack subset = [1];

backtrack subset = [];

2) Second Iteration: (i=1 to 2)

-> subset = [2]

-> backtrack(2,[2])

result = [[],[1],[1,2],[1,2,3],[1,3],[2]]

FirstIteration: (i=2 to 2)

-> subset = [2,3]

-> backtrack(3,[2,3])

result = [[],[1],[1,2],[1,2,3],[1,3],[2],[2,3]]

loop Ends;

backtrack -> subset = [2]

backtrack -> subset = []

3) Third Iteration: (i=2 to 2)

-> subset = [3]

-> backtrack(3,[3])

result = [[],[1],[1,2],[1,2,3],[1,3],[2],[2,3],[3]]

Loop Ends;

backtrack -> subset = []