Letter pliene member

To relie the letter combinations of a phone number problem you need to generate all possible combination, of letters corresponding to the given digits using a backtracking approach.

They Eonogot: | Each digit major asset of characters, lete this:

Digit | 2 | 3 | 4 | 5 | 5 | 7 | 8 | 9

Tetters | ax | def | ghi | jhl | mno | pgvs | tuv | wx +2

Your job is to build all combinations by choosing one

letter per deget

Strategy: Backtracking (SFS)

1. Une mes to convert digits to letter strings

2. Use a recussive feenétion:

· Box case if the cursent combination s

length = = degets length - add it to result. Pecursive step: for each letter that matches the cussent

oligit, add it to the path and recurse.

3. Collect all valid combination into a vector.

(Edge Case: I If the injust string is empty -s return an empty vector

Tescample: | For degets = "23":

2 - 66'

Build combinations by sicking one letter from each set: