## Letter pluse member

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

They Eoncept: | Each digit maps asset of characters, lete this:

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

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

Your job is to build all conditions by choosing one
letter per digit.

Strategy: Backtracking (SFS):

1. Une mes to convert digits to letter strings

2. Use a récursive femétion:

· Box case if the consent combination is

length = = degets length - add it to result.

Pecursive step: for each letter that matches the cursent oligit, add it to the path and recurse.

3. Collect all valid combination into a vector

Edge Cax: I If the input string is empty -s return an empty vector.

Tescample: [ Fordégits = "23";

13' → 'def'

Build combination by sicking one letter from each set: