17. Letter Combinations of a Phone Number

Solved

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Given a string containing digits from `2-9` inclusive, return all possible letter combinations that the number could represent. Return the answer in **any order**.

A mapping of digits to letters (just like on the telephone buttons) is given below. Note that 1 does not map to any letters.

Example 1:

```
Input: digits = "23"
Output: ["ad","ae","af","bd","be","bf","cd","ce","cf"]
```

```swift
class Solution {
    let dtlHash:[Character:[String]] = [
        "2":["a","b","c"],
        "3":["d","e","f"],
        "4":["g","h","i"],
        "5":["j","k","l"],
        "6":["m","n","o"],
        "7":["p","q","r","s"],
        "8":["t","u","v"],
        "9":["w","x","y","z"]
    ]
    func letterCombinations(_ digits: String) -> [String] {
        var ans:[String] = []
        if digits.count == 0 {
            return ans
        }

        var arr = Array(digits)

        for i in arr {
            ans = getConcatAns(ans,dtlHash[i]!)
```

```
        }

        return ans
    }

    func getConcatAns(_ ans:[String], _ arr:[String]) -> [String]{
        if ans.count == 0 {
            return arr
        }
        var temp:[String] = [String]()
        for i in ans {
            for j in arr {
                temp.append(i+j)
            }
        }
        return temp
    }
}
```