

String

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Description

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## 17. Letter Combinations of a Phone Number

Medium Topics Companies

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"]

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Code

Java

Auto

```
1 import java.util.*;
2
3 public class Solution {
4     public List<String> letterCombinations(String digits) {
5         if (digits.isEmpty()) return new ArrayList<>();
6
7         String[] map = {
8             "", "", "abc", "def", "ghi", "jkl",
9             "mno", "pqrs", "tuv", "wxyz"
10        };
11
12        List<String> result = new ArrayList<>();
13        result.add("");
14
15        for (char digit : digits.toCharArray()) {
16            List<String> temp = new ArrayList<>();
17            String letters = map[digit - '0'];
```

Saved

Ln 35, Col 2

Testcase

Test Result

Accepted

Runtime: 4 ms

Case 1 Case 2 Case 3

Input

digits =  
"23"