All Letter Combinations

Question: Given a digit string, return all possible letter combinations that the number could represent. A mapping of digit to letters is given below.

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2 \Rightarrow a,b,c; 3 \Rightarrow d,e,f; 4 \Rightarrow g,h,l; 5 \Rightarrow j,k,l; 6 \Rightarrow m,n,o; 7 \Rightarrow p,q,r,s;
8 => t,u,v; 9 => w,x,y,z
0,1 will not produce anything
       Input: Digit string "23"
Ex:
       Output: ["ad", "ae", "af", "bd", "be", "bf", "cd", "ce", "cf"].
Solutions:
class Solution:
  #@return a list of strings, [s1, s2]
  def letterCombinations(self, digits):
     def dfs(num, string, res):
        if num == length:
          res.append(string)
          return
        for letter in dict[digits[num]]:
             dfs(num+1, string+letter, res)
     dict = {'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'],
```