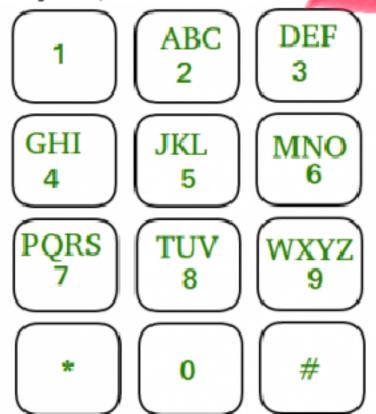
12. Possible Words From Phone Digits 🛚 🗎

Medium Accuracy: 51.06% Submissions: 8164 Points: 4

Given a keypad as shown in the diagram, and an N digit number which is represented by array a [], the task is to list all words which are possible by pressing these numbers.



Example 1:

Input: N = 3, a[] = {2, 3, 4}
Output:
adg adh adi aeg aeh aei afg afh afi
bdg bdh bdi beg beh bei bfg bfh bfi
cdg cdh cdi ceg ceh cei cfg cfh cfi
Explanation: When we press 2,3,4 then
adg, adh, adi, ... cfi are the list of
possible words.

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void printWordsUtil(int number[], int curr digit,
string output, int n, vector <string> &res)
   // Base case, if current output word is prepared
   int i;
    if (curr_digit == n)
        res.push_back(output);
        return ;
    // Try all 3 possible characters for current digir in number[]
    // and recur for remaining digits
    for (i=0; i<strlen(hashTable[number[curr_digit]]); i++)</pre>
        output.push back(hashTable[number[curr_digit]][i]);
        printWordsUtil(number, curr_digit+1, output, n, res);
        if (number[curr_digit] == 0 || number[curr_digit] == 1)
            return:
        output.pop back();
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string output, int n, vector <string> &res)
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   // Base case, if current output word is prepared
   int i;
   if (curr_digit == n)
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      res.push_back(output);
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      return :
   // Try all 3 possible characters for current digir in number[]
                                                              or was in the case of backbacking.
   // and recur for remaining digits
   for (i=0; i<strlen(hashTable[number[curr_digit]]); i++)
      futput./push_back(hashTable[number[curr_digit]][i]);
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      printWordsUtil(number, curr_digit+1, output, n, res);
      if (number[curr_digit] == 0 || number[curr_digit] == 1)
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     output.pop_back();
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| Solution | 4 | |
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