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Time Remaining: 00:06:46

ninesquares

Question 1 / 1

Given a sorted list of three-letter words, generate all three by three collections of letters such that every row and column, and both left-to-right diagonals is a three letter word from the list. For example, given an input file:

```
ace
are
bay
bed
cry
dad
dry
ear
ere
eye
```

the output would be

```
ace
cry
eye

bed
ear
dry
```

You can use the same word more than once.

The input is a list of three letter words, one on each line

Output is all valid three-by-three grids, sorted alphabetically. Print a blank line after each grid (including the last one.)

read from stdin and write to stdout.

Maximum execution time for your code is 3 seconds. Maximum input size is 200 words

⊙ Download sample testcases as zip ['Compile & Test' will run your code against these testcases]

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Pick your language   C   C++   Java   C#   PHP   Ruby   Python   Perl   Haskell

```
 1  #Enter your code here. Read input from STDIN. Print output to STDOUT
 2  #For more details, please check https://www.interviewstreet.com/recruit/challenges/faq/view#stdio
 3
 4  wordlist = []
 5  while True:
 6      try:
 7          wordlist.append(raw_input())
 8      except:
 9          break
10
11  for wi in wordlist:
12      for wj in wordlist:
13          if wj.startswith(wi[1]):
14              for wk in wordlist:
15                  if wk.startswith(wi[2]):
16                      diag1 = wi[0] + wj[1] + wk[2]
17                      diag2 = wi[2] + wj[1] + wk[0]
18                      v1 = wi[0] + wj[0] + wk[0]
19                      v2 = wi[1] + wj[1] + wk[1]
20                      v3 = wi[2] + wj[2] + wk[2]
21                      if (diag1 in wordlist) and (diag2 in wordlist) and (v1 in
22  wordlist) and (v2 in wordlist) and (v3 in wordlist):
23                          print wi
24                          print wj
25                          print wk
26                          print
```

⌨ Keyboard Shortcuts Available

(**Compile & Test**)   (**Submit Answer**)   (**Skip Question**)

3/3 testcases passed

TestCase #0
Status: Passed ?

Your output:
ace
cry
eye

bed
ear
dry

TestCase #1
Status: Passed ?

Your output:
ace
cry
eye

bed
ear
dry

bee
era

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```
ear

bee
era
err

bee
err
ear

bee
err
era

bee
err
err

ebb
boa
ban
```

TestCase #2 (Hidden)

Status: Passed ?