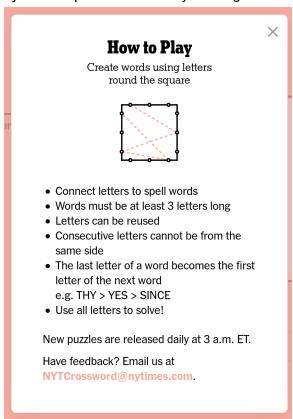
## MFJ Programming Challenge

Use whatever language/tools you want.

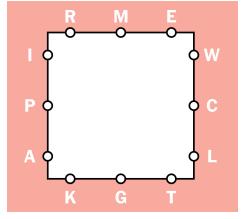
## **Letter Boxed**

NYT has a game called "Letter Boxed". It's a square with three (ASCII) letters to a side, and you try to use up all the letters by making a series of words. Here are the rules:



A given letter only appears once on a puzzle grid. In case it's not obvious, a solution word also couldn't use a double letter combination, since a letter is always on the same side as itself.

Here's an example puzzle:



Write a program that:

- 1. loads a word dictionary file (one word or phrase per line) (see words.txt)
- takes a puzzle grid as a string (the above puzzle could be represented as "RME,WCL,KGT,IPA", "LWC,GTK,ERM,PIA" or any other topological equivalent)
- 3. returns all valid two-word solutions to the puzzle given the loaded dictionary