



# Crosswords-101 ★

Points: 553.180000000001 Rank: 1150

Problem Submissions Leaderboard

# RATE THIS CHALLENGE



A  $10 \times 10$  Crossword grid is provided to you, along with a set of words (or names of places) which need to be filled into the grid.

The cells in the grid are initially, either + signs or - signs.

Cells marked with a + have to be left as they are. Cells marked with a - need to be filled up with an appropriate character.

#### **Input Format**

The input contains 10 lines, each with 10 characters (which will be either + or - signs).

After this follows a set of words (typically nouns and names of places), separated by semi-colons (;).

#### Constraints

There will be no more than ten words. Words will only be composed of upper-case A–Z characters. There will be no punctuation (hyphen, dot, etc.) in the words.

#### **Output Format**

Position the words appropriately in the  $10 \times 10$  grid, and then display the  $10 \times 10$  grid as the output. So, your output will consist of 10 lines with 10 characters each.

### Sample Input 0

# Sample Output 0

#### Sample Input 1

+-++++++



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✓ 

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                                                                                                                                    Change Theme Language Haskell
              {-# LANGUAGE TupleSections #-}
   2
   3
              import Data.List as L
   4
              import Data.Map as M
              import Data.Ord (comparing)
   5
   6
              import Data.Maybe
   7
              import Control.Monad
   8
  9
              getSlots :: [String] -> [[(Int, Int)]]
10
11
              getSlots grid = L.filter ((> 1) . length) $ scanLines 0 grid ++ fmap (fmap exchange)
               (scanLines 0 (L.transpose grid))
12
                           where scanLines _ [] = []
                                             scanLines i (l:ls) = scanLine i 0 l ++ scanLines (i+1) ls
13
                                             scanLine _ _ "" = []
14
                                             scanLine i j str = let (s, ss) = span (== '+') str
15
                                                                                                                  jj = j + length s
16
17
                                                                                                                  (s', ss') = span (== '-') ss
18
                                                                                                                  jjj = jj + length s' - 1
19
                                                                                                          in fmap (i,) [jj..jjj] : scanLine i (jjj+1) ss'
20
                                             exchange (x,y) = (y,x)
21
22
               findResult :: [[(Int, Int)]] -> [String] -> [([(Int, Int)], String)]
23
               findResult slots ws = fromJust $ L.find g $ doFind (f slots) (f ws)
24
                           where f = L.groupBy (\x y -> length x == length y) . L.sortBy (comparing length)
                                             g result = isJust $ L.foldl' (\mm (p, ch) ->
25
26
                                                         case mm of
27
                                                               Just m -> let ch' = M.lookup p m
                                                                                                                                                                                                                                                                   Line: 50 Col: 1
```

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