

BACK

Crossword Formation

174,004

DESCRIPTION

SOLUTIONS184

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README

CODEWRITING

SCORE: 300/300

You're a crossword fanatic, and have finally decided to try and create your own. However, you also love symmetry and good design, so you come up with a set of rules they should follow:

- the crossword must contain exactly four words;
- these four words should form four pairwise intersections;
- all words must be written either left-to-right or top-to-bottom;
- the area of the rectangle formed by empty cells inside the intersections isn't equal to zero.

Given 4 words, find the number of ways to make a crossword following the above-described rules. Note that two crosswords which differ by rotation are considered different.

Example

For words = ["crossword", "square", "formation", "something"], the output should be crosswordFormation(words) = 6.

The six crosswords can be formed as shown below:

f
o
c r o s s w o r d
m q
a u
t a
i r
s o m e t h i n g
n

; s q u a r e

f
r o
m m
t t
i h
o i
n n
g

f
c r o s s w o r d
q r
u m
a a
r t
s o m e t h i n g
o
n

c
f o r m a t i o n
o m
s q u a r e
s t
w h
o i
r n
d g

; s o m e t h i n g

s
q
r u
r
o
w
r
d

c
r o
m
s q u a r e
s t
w h
o i
r n
d g

Input/Output

- [execution time limit] 4 seconds (js)
- [input] array.string words

An array of distinct strings, the words you need to use in your crossword.

Guaranteed constraints:

```
words.length = 4 ,  
3 ≤ words[i].length < 15 .
```

- [output] integer

The number of ways to make a correct crossword of the desired formation.

[JavaScript (ES6)] Syntax Tips

```
// Prints help message to the console  
// Returns a string  
function helloWorld(name) {  
  console.log("This prints to the console when you Run Tests");  
  return "Hello, " + name;  
}
```