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Crossword Puzzle

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Problem

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A 10×10 Crossword grid is provided to you, along with a set of words (or names of places) which need to be filled into the grid. Cells are marked either + or - . Cells marked with a - are to be filled with the word list.

The following shows an example crossword from the input crossword grid and the list of words to fit, words = [POLAND, LHASA, SPAIN, INDIA]:

nput	Output	
+++++++	+++++++	
++++	+POLAND+++	
+++-++++	+++H+++++	
+++-++++	+++A+++++	
+++++	+++SPAIN++	
+++-+++	+++A++N+++	
+++++-++	+++++D+++	
+++++-++	+++++1+++	
+++++-++	+++++A+++	
++++++++	++++++++	

Function Description

Complete the crosswordPuzzle function in the editor below. It should return an array of strings, each representing a row of the finished puzzle.

crosswordPuzzle has the following parameter(s):

- crossword: an array of 10 strings of length 10 representing the empty grid
- words: a string consisting of semicolon delimited strings to fit into crossword

Input Format

Each of the first 10 lines represents crossword[i], each of which has 10 characters, crossword[i][j].

The last line contains a string consisting of semicolon delimited words[i] to fit.

Constraints

$$1 \leq |words| \leq 10$$
 $crossword[i][j] \in \{+, -\}$ $words[i][j] \in ascii[A - Z]$

Output Format

Position the words appropriately in the 10 imes 10 grid, then return your array of strings for printing.

Sample Input 0

```
+-++++++

+--+++++++

+----++++

+--++-++++

+-++-++++

+-++----++

++++-++++

+-----++

++++-++++

LONDON; DELHI; ICELAND; ANKARA
```

Sample Output 0

Sample Input 1

Sample Output 1

Sample Input 2

Sample Output 2



Submissions: 8 Max Score: 15

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```
C
                                                                                                                                    22 | 🜣
Current Buffer (saved locally, editable) ?
  2 #include <limits.h>
     #include <math.h>
     #include <stdbool.h>
     #include <stdint.h>
      // Complete the crosswordPuzzle function below.
      // Please store the size of the string array to be returned in result_count pointer. For example,
      // char a[2][6] = {"hello", "world"};
      // *result_count = 2;
19  //
20  // return a;
21  //
22  ▼ char** crosswordPuzzle(int crossword_count, char** crossword, char* words, int* result_count) {
23
24
25  }
26  int main()
28  ▼ {
    FILE* fptr = fopen(getenv("OUTPUT_PATH"), "w");
30
31  char** crossword = malloc(10 * sizeof(char*));
           char** crossword = malloc(10 * sizeof(char*));
               char* crossword_item = readline();
               *(crossword + i) = crossword_item;
           int crossword_count = 10;
           char* words = readline();
           int result_count;
           char** result = crosswordPuzzle(crossword_count, crossword, words, &result_count);
               fprintf(fptr, "%s", *(result + i));
                    fprintf(fptr, "\n");
           fclose(fptr);
```