

# Crossword Puzzle



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. 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]:

```
Input      Output
+++++
+-----+ +POLAND+++
+++-----+ +++H+++++
+++-----+ +++A+++++
+++-----+ +++SPAIN++
+++-----+ +++A++N+++
+++++-----+ +++++D+++
+++++-----+ +++++I+++
+++++-----+ +++++A+++
+++++-----+ ++++++
POLAND;LHASA;SPAIN;INDIA
```

## 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

$$1 \leq |words| \leq 10$$

$$crossword[i][j] \in \{+, -\}$$

$$words[i][j] \in \text{ascii}[A - Z]$$

## Output Format

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

## Sample Input 0

```
+-----+
+-----+
+-----+
+-----+
+-----+
+-----+
+-----+
+-----+
+-----+
+-----+
LONDON;DELHI;ICELAND;ANKARA
```

## Sample Output 0

```
+L+++++++
+O+++++++
+N+++++++
+DELHI+++
+O+++C+++
+N+++E+++
+++++L++++
++ANKARA++
+++++N++++
+++++D++++
```

### Sample Input 1

```
+-----+
+-+++++++
+-+++++++
+-----++
+-+++++++
+-+++++++
+-----+++
+-+++-++++
+++++-++++
+++++-++++
+++++-----
AGRA;NORWAY;ENGLAND;GWALIOR
```

### Sample Output 1

```
+E+++++++
+N+++++++
+GWALIOR++
+L+++++++
+A+++++++
+NORWAY+++
+D+++G++++
+++++R++++
+++++A++++
+++++-----
```

### Sample Input 2

```
XXXXXX-XXX
XX-----XX
XXXXXX-XXX
XXXXXX-XXX
XXX-----X
XXXXXX-X-X
XXXXXX-X-X
XXXXXXXXXX-X
XXXXXXXXXX-X
XXXXXXXXXX-X
XXXXXXXXXX-X
ICELAND;MEXICO;PANAMA;ALMATY
```

### Sample Output 2

```
XXXXXXXXXX
XXMEXICOMX
XXXXXXXXXX
XXXXXXLXXX
XXXPANAMAX
XXXXXXNXLX
XXXXXXDXMX
XXXXXXXXXX
XXXXXXXXXX
XXXXXXXXXX
XXXXXXXXXX
```