Word Search Jumble

Summary

A popular puzzle format consists of random letters situated in a grid of rows and columns called a jumble. Inside the jumble there are words that are hidden that you can find.

Objective

The objective of this word search task is to be given a target word and a jumble of letters stored in a 2D string array and determine if the word is in the jumble. The 2D array contains the grid of characters stored as type string (see example below).

Guidelines

A word search should occur in 3 directions:

- 1. Horizontal (left to right)
- 2. Vertical (top to bottom)
- 3. Diagonal (top-left to bottom-right)

If the word is in the jumble in any direction provided above, return the position of the word's starting letter as X, Y coordinates (starting from 0, 0).

If the word is not in the jumble, return -1, -1

Example

T	Υ	N	Α	U	U	Н	Т	W	G	С	0	D	Ε
U	С	G	D	P	Н	G	Е	F	Υ	Z	X	U	D
Y	0	S	E	Α	Р	Ε	S	I	W	Е	В	E	E
Р	M	Q	V	L	Р	L	Т	L	E	K	F	G	Р
Т	P	P	Ε	K	A	P	1	Е	Z	Ε	0	V	L
M		В	L	٧	U	С	N	С	Z	M	Н	S	0
Α	L	J	0	Α	K	P	G	Н	Α	M	N	Z	Y
Α	E	W	P	R	0	G	I	K	P	T	G	S	S
R	R	S	E	Y	P	Y	Н	L	Q	В	I	R	F
S	Q	W	R	Y	0	X	J	V	Z	P	G	0	J
Е	J	V	M	0	D	U	L	Е	N	Е	L	E	N
0	E	N	V		R	0	N	M	E	N	T	X	L
G	W	С	Q	Р	Z	M	W	Α	J	K	Y	R	R
R	U	G	G	X	Z	M	0	Q	Y	С	M	W	L

Data format:

jumble[0][0] == "T"
jumble[0][1] == "Y"
jumble[0][2] == "N"
jumble[1][0] == "U"
jumble[1][1] == "C"
jumble[1][2] == "G"

. . . .

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INPUT
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word = "CODE"

jumble = (2D array pictured above)

OUTPUT

arr = [10, 0]

Returns:

int array: The *x*, *y* coordinates of the start letter of the word in any search direction provided above

Notes

If you're not sure of an optimized solution then consider a brute force approach.