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1. One problem that was difficult was converting the one-dimensional array into a two dimensional array. Rotating the function and normalizing the array was not that hard. It is also figuring out how to compute the score based on how far the word is from another word.

Another problem was trying to find a way to make it stop counting the multiples such as deranged deranged robot deranged robot robot.

1. Created shifting functions to make the fixing easier

If it is uppercase, make it lowercase

If the word has something that is not a letter, remove the criteria

This applies to both word1 and word2 where if one of them is wrong, the whole criteria is removed

If the character array is empty, also remove it from the criteria list

If there are two of the same word1 and word2, look t the distance value

If the lower distance is first, shift everything up from there

If the higher distance is first, shift everything up from the lower distance criteria

Return the number of criteria left in the list

Everything is correct

“normalize” the document

if there are upper case letters in the document, make them lowercase

If there are things that are not a lowercase letter and not a space, shift everything to the left to fix it

If there is a space, then leave it

Now convert the document into a 2D array

Go through the document and start copying a word into the 2D array

If there is a space, then a new word is starting and then copy that

If there is multiple spaces, just ignore them

Test to see if word1 is even in the document

Test to see if word2 comes after word1 by looping to see that word2 is distance or less from word1

If it is, then increase the score by 1

If there is a match, then make it so that you cant find that same thing again by saying hey I found a match already now move onto the next thing

Return the number of matches found

1. Test cases:

See if there are multiple spaces

See if everything is the same word

See if the document is empty

See if both word1 and word2 are the same words

If the distance is off the range

See if everything is lowercase

See if the rotation is correct and not off by one during each rotation

See if symbols are removed

See if all spaces are left