Comp 2209 CourseWork 2

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Report

I.   Challenge 1

First we split the task into smaller tasks like checking in each orientation. Then we combine them in into a function that uses the previous to check for a word in each orientation. Then we use it to find all the words and return them as Placements paired with the word so we combine it. After that we just compose it into list of answers to be tested.

I.   Challenge 2

First we generate a starting grid then we match the words with possible Placements (first by pairing them with possible orientations and then trying if they all fit together) then we finalize the grid by replacing the random characters in the starting grid with characters form the words by getting the words as a list of characters and replacing the words in their place at the grid.