**Radix Sort Write-Up**

Radix sort was a challenging algorithm to implement, and to switch to sorting strings. I watched some animations and other explanations to make sure I understood the base form of Radix sort. Once I had improved my own understanding of the algorithm, it became easier to switch it to strings. My first attempt didn’t end up working out because my conversion from strings to digits was illogical. I tried constructing a number to represent each word but it did not work well. My second attempt went better. This time, I created a dictionary of characters and sorted based on the index of a character in the dictionary. For a while I actually thought this attempt had failed as well, until I realized it was sorting in the wrong order because I was checking the letters from the 0 position to the end as opposed to the end to the zero position. Once I fixed that issue, the code worked perfectly.

A picture containing diagram

Description automatically generated

(The bar was printed to verify my padding function worked correctly)