Konnor Mazyrack 11/14/23

Computer Architecture

ELEN-34443

**Phase 2:**

Unique Array Sorting: Sorting with a Twist!

Changes and Adjustments from Phase1:

In Phase 1 I used an array with the size of 9, the array that I use in phase 2 is smaller, so instead the array doesn’t have to go through digits within the loop.

For phase 1 I use nested for loops, but in phase 2 I just used 1 loop that would store values within the registers rsi and rdi making them correlate to I and j instead of having 2 loops that increment each time as they run through the loop.

Testing the Program:

I tested my program with a different array from phase 1 using larger numbers.

A screenshot of a computer screen

Description automatically generated

My program then runs through the array and sorts the array in a little number, big number order and prints my array out to the screen.

A screen shot of a computer code

Description automatically generated