

The Matrix Flippy-Flop

Changes and Adjustments from Phase 1:

I removed the temp matrix from the flippyFlop function and instead overwrote the matrix in memory. Because of this I also changed the bounds on the loops, the outer loop goes from 1 to 3 (excluding 3) and the inner loop goes from 0 to the outer loop index (excluding it). This is because I don't need to loop at the main diagonal, I just need to loop through the bottom triangular part and access the upper triangular part at the same time.

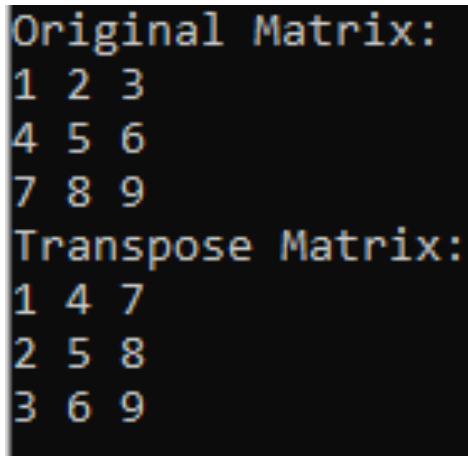
Additionally, I implemented a function to print the matrix in matrix form.

Testing the Program:

I tested the program with the same matrix I had in phase 1, pictured below. The matrix is stored row-major in a single array:

```
myMatrix          dq 1, 2, 3, 4, 5, 6, 7, 8, 9
```

My program prints out the original and transposed matrix:



```
Original Matrix:
1 2 3
4 5 6
7 8 9
Transpose Matrix:
1 4 7
2 5 8
3 6 9
```