

Problem #1:(30pts)

(b) What is the running time complexity of your radixSort method? Justify.

- The running time complexity of my method is $O(d*n)$, where n is the input, d is the size of the largest key. There are no nested loops in my program but when we get to the radix sort portion we are multiplying $d * n$ because it is based on the size of the max key and checks each digit in max key length. Ex. key: 321 $d = 3$