Problem #1:

A.

SET index1 counter equal to 0.

SET index2 counter equal to 0.

While index2 is less than the length of L2

    If index1 is greater than or equal to the length of L1 OR index2 is greater than or equal to the length of L2

        The loop will stop before we get out of bounds exception.

    End if statement.

    If L1 at index1 is equal to L2 at index2

        PRINT the intersection of L1 and L2.

        INCREMENT index2

    End if statement.

    INCREMENT index1

End while loop.

B.

If I know that N2 > N1 then the running time complexity of my algorithm is O(n) because of the while loop. The if statements do not affect the time complexity because they are basic arithmetic and print statements.