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/*
Purpose/Description: Problem 1: Find intersection of elements between two lists
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Certification:
I hereby certify that this work is my own and none of it is the work of
any other person.
   */
Solution 1:
a)
SET result equal to an empty arraylist
SET i, j, and k equal to one
WHILE i is less than or equal to the length of L<sub>1</sub> and j is less than or equal to L<sub>2</sub>
         IF L<sub>1</sub> at i is equal to L<sub>2</sub> at j
                  ADD one item inside the result and set it to L<sub>1</sub> at i
                  ADD one to i and j
         ELSE IF L<sub>1</sub> at i is less than L<sub>2</sub> at j
                  WHILE L<sub>1</sub> at i is less than L<sub>2</sub> at j
                            ADD one to i
         ELSE
                  WHILE L<sub>1</sub> at i is greater than L<sub>2</sub> at j
                            ADD one to j
return result
b) If N<sub>2</sub> is greater than N<sub>1</sub> then the running time complexity is O(N<sub>2</sub>)
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