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CMPT 435 - Assignment #10

1)
    a) Loop for i less than s2's size
              Add the index of s2 to the set
        Loop for i less than s1's size
              If the set contains i in s1, then print it
    b) for (i = 0; i < s2.length; i++)   // n
              s.add(s2[i])   // 1
        for (i = 0; i < s1.length; i++)   // n
              if (s.contains(s1[i])) { **Output:** print() }   // 1
    c) O(n) = n
2)
    a) Loop while i is less than s1's size and j is less than s2's size
              Base Case: if s1[i] is equal to s2[j], increment s1 at i
              General Cases: else if s2[j] is less than s1[i], increment s2 at j
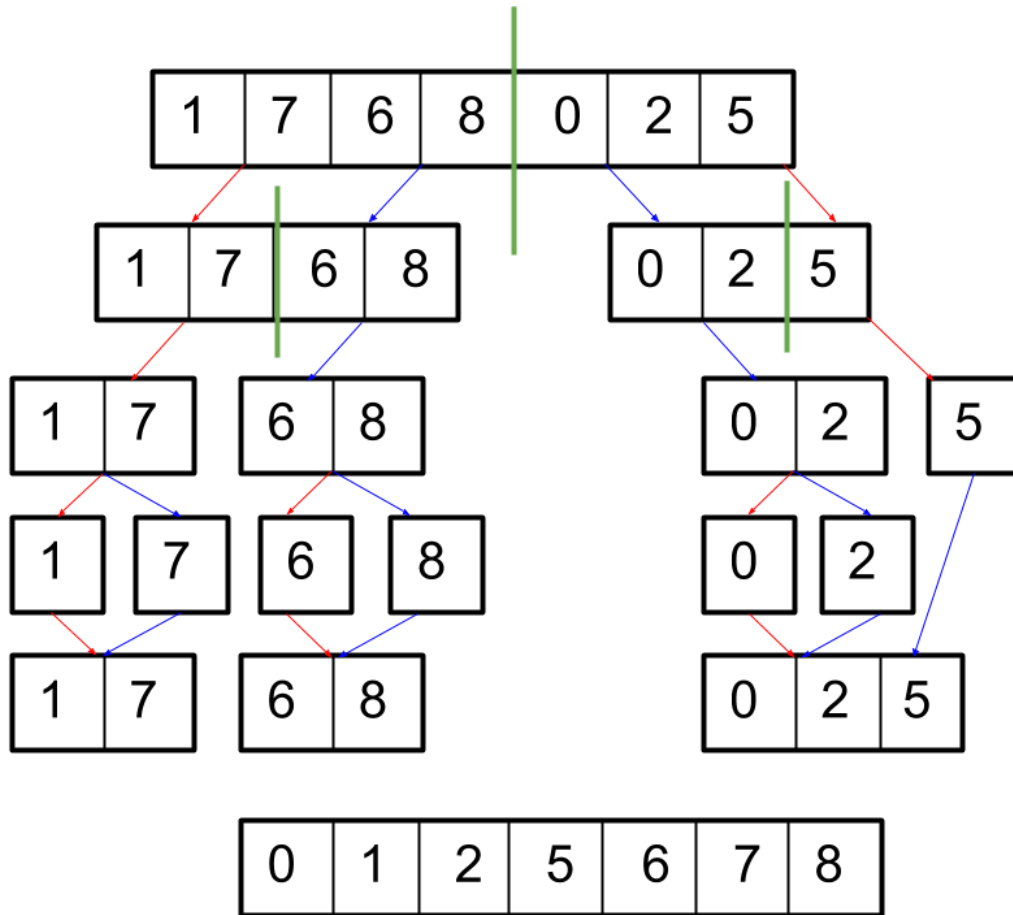   else if s2[j] is greater than s1[i], increment s2 at j and i
    b) while (s1[i] < s1.length && s2[j] < s2.length)   // n
              if (s1[i] == s2[j]) { **Output:** print(s1[i++] + " ") }   // 1
              else if (s2[j] < s1[i]) { **Output:** print(s2[j++] + " ") }   // 1
              else { **Output:** print(s2[j++] + " "), i++ }   // 1
    c) O(n) = n

1	7	6	8	0	2	5

1	7	6	8

0	2	5

1	7

6	8

0	2

5

1	7

6	8

0	2

1	7

6	8

0	2	5

0	1	2	5	6	7	8

3)