Algorithm sameElements(A, B)

Input: Two sequences A and B of n elements each

Output: True if A and B contain the same set of elements, False otherwise

1. A_sorted := Sort(A)

2. B_sorted := Sort(B)

3. for i from 0 to n - 1 do

    if A_sorted[i] ≠ B_sorted[i] then

      return False

4. return True

///////R-5.4////////////

$T(n) = \Theta(n)$.

$T(n) = \Theta(n^3)$.

$T(n) = \Theta(n^4 \cdot \log^5 n)$.

$T(n) = \Theta(n^{1.77})$.

$T(n) = \Theta(n^3 \log n)$.