

Eliot Cole
Kelvin Wilch
Bill Ngoga
Liam McGibbon

Writeup for RaggedArrayList findStart and findEnd methods

Both find methods use two while loops to find the given element in the ragged array list. The first while loop is used to find which L2Array should contain the item, and the second while loop loops through the L2Array to find the item. Because the L1 and L2 arrays have \sqrt{n} elements each and only one of each type of array is iterated over, the findStart and findEnd methods have a time complexity of $O(\sqrt{n} \cdot \sqrt{n})$, which simplifies to $O(n)$.