

Data Structure: Assignment #7

Programming problems:

- Another simple sort is the odd-even sort. The idea is to repeatedly make two passes through the array. On the first pass you look at all the pairs of items, $a[j]$ and $a[j+1]$, where j is odd ($j = 1, 3, 5, \dots$). If their key values are out of order, you swap them. On the second pass you do the same for all the even values ($j = 2, 4, 6, \dots$). You do these two passes repeatedly until the array is sorted. Replace the `bubbleSort()` method with an `oddEvenSort()` method. Make sure it works for varying amounts of data. You'll need to figure out how many times to do the two passes.

Assignment Problem:

- The insertion sort uses a loop-within-a-loop algorithm that compares every item in the array with every other item. If you want to remove duplicates, this is one way to start. Modify the `insertionSort()` method so that it removes duplicates as it sorts