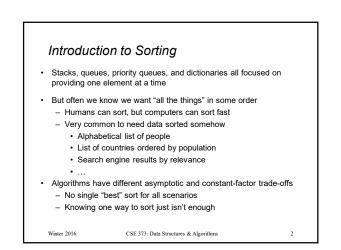
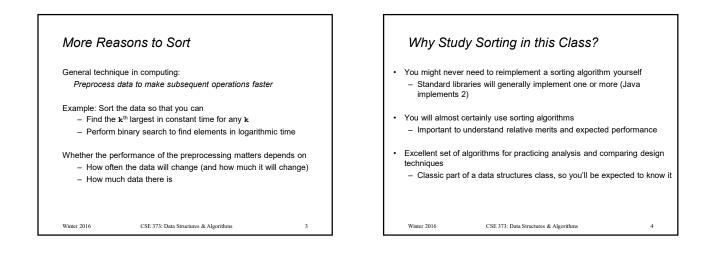
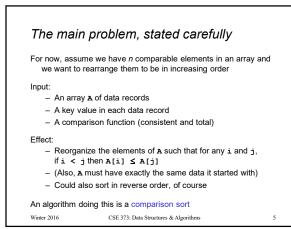


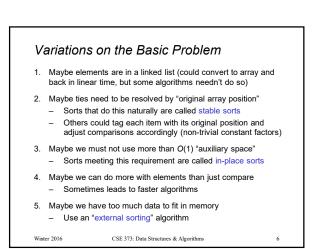
Winter 2016

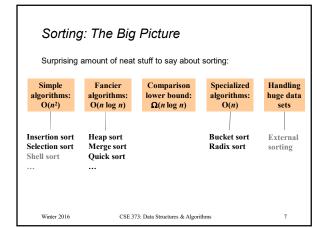
This lecture material represents the work of multiple instructors at the University of Washington. Thank you to all who have contributed!

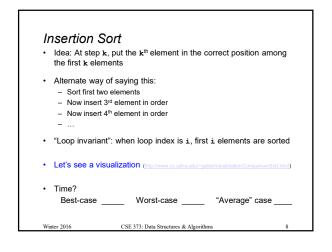


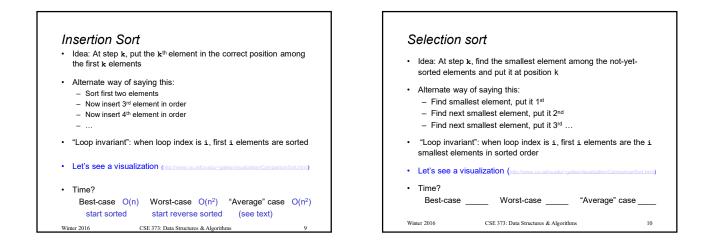


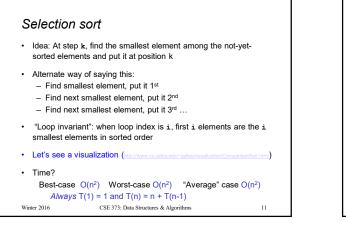


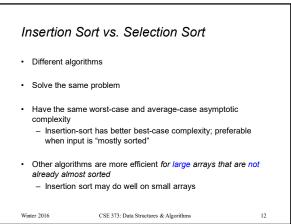


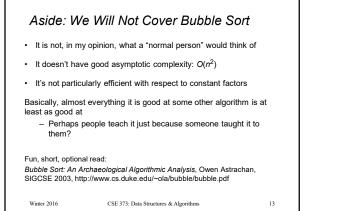


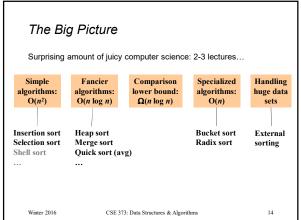


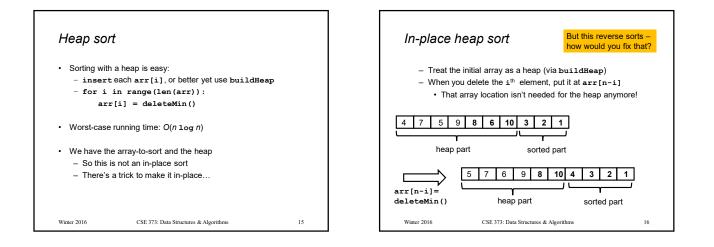


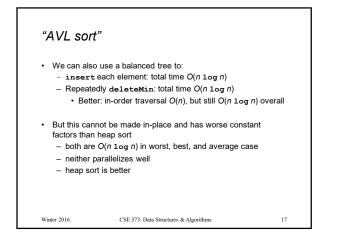


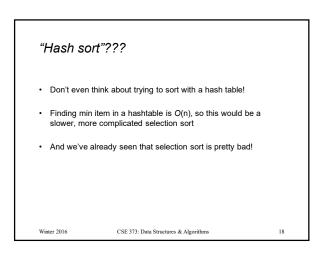


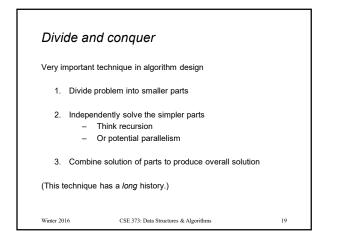












Divide-and-Conquer Sorting		
Two great sorti	ng methods are fundamentally divide-and-conquer	
1. Mergesort:	Sort the left half of the elements (recursively) Sort the right half of the elements (recursively) Merge the two sorted halves into a sorted whole	
2. Quicksort:	Pick a "pivot" element Divide elements into less-than pivot and greater-than pivot Sort the two divisions (recursively on each) Answer is sorted-less-than then pivot then sorted-greater-than	
Winter 2016	CSE 373: Data Structures & Algorithms 20	

