CSDS 233 Spring Session 14

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Disclosure: This is a supplement to class, not a replacement. This should not be your only study activity for exams, it should aid you in studying. I do not have access to the actual exam so questions here will differ from those on the exam.

Session Objectives:

1) Understand how quicksort partition works (review)

2)

Questions

1) What is partitioning in quick Sort?

2) The pivot is 10, partition the following

10	15	9	5	3	11	1

3) The pivot is 9, partition the following

10	15	9	5	3	11	1

4) The pivot is 70, partition the following

10	80	30	90	40	50	70

5) Sort the array from question 3 to completion. . . the pivot will be the biggest index

6) Use radix sort to sort the following in ascending order

53	89	150	36	633	233

7) Sort the following using radix sort

98	107	333	126	70	6

Interesting article about partitioning: https://www.geeksforgeeks.org/implement-various-types-of-partitions-in-quick-sort-in-java/