

CE100 Algorithms and Programming II

Quicksort

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0.1 CE100 Algorithms and Programming II

0.2 Week-4 (Quicksort)

0.2.0.1 Spring Semester, 2021-2022 Download DOC¹, SLIDE², PPTX³

0.3 Quicksort Sort

0.4 Outline

- Quicksort
 - Hoare Partitioning
 - Lomuto Partitioning
 - Recursive Sorting
-

- Quicksort Analysis
 - Randomized Quicksort
 - Randomized Selection
 - Recursive
 - Medians
-

- Heaps
-

¹[ce100-week-4-quicksort.md_doc.pdf](#)

²[ce100-week-4-quicksort.md_slide.pdf](#)

³[ce100-week-4-quicksort.md_slide.pptx](#)

- Max / Min Heap
- Heap Data Structure
- Heapify
- Iterative
- Recursive
- Extract-Max
- Build Heap

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- Heap Sort
 - Priority Queues
 - Linked Lists
 - Radix Sort
 - Counting Sort
-

0.5 References

TODO