Readings for CSCI 241

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Note: I have found a wonderful free Data Structures in Java book that we will be using the rest of the quarter:
`http://www.cs.williams.edu/~bailey/JavaStructures/Welcome.html`

29 March: Big Oh.

- *Building Java Programs*, chapter 13.
- *Introduction to Algorithms*, chapters 2 and 3.
- `http://dept.cs.williams.edu/~bailey/JavaStructures/Book_files/JavaStructures.pdf`, chapter 5.
- `https://rob-bell.net/2009/06/a-beginners-guide-to-big-o-notation/`
- `https://www.interviewcake.com/article/java/big-o-notation-time-and-space-complexity`

April 3: Merge sort,

- `http://www.cs.williams.edu/~bailey/JavaStructures/Welcome.html` Chapter 6
- `https://en.wikipedia.org/wiki/Logarithm`
- *Building Java Programs*, chapter 13.
- *Introduction to Algorithms*, chapters 2 and 7.
- `https://en.wikipedia.org/wiki/Merge_sort`

April 10: Quicksort

- `http://www.cs.williams.edu/~bailey/JavaStructures/Welcome.html` , Chapter 6
- `https://en.wikipedia.org/wiki/Quicksort`

April 11: Binary Trees

- `http://www.cs.williams.edu/~bailey/JavaStructures/Welcome.html` , Chapter 12

April 19 Priority Queues

- `http://www.cs.williams.edu/~bailey/JavaStructures/Welcome.html` , Chapter 13

April 24 Search Trees

- `http://www.cs.williams.edu/~bailey/JavaStructures/Welcome.html` , Chapter 14
  Skip Red/Black trees. I think AVL trees are (slightly) easier to explain, so we'll go with them:
- `https://en.wikipedia.org/wiki/AVL_tree`
- `http://faculty.cs.niu.edu/~freedman/340/340notes/340avl.htm`
- `http://faculty.cs.niu.edu/~freedman/340/340notes/340avl2.htm`

May 4 Maps

- `http://www.cs.williams.edu/~bailey/JavaStructures/Welcome.html` , Chapter 15

May 15 Graphs

- `http://www.cs.williams.edu/~bailey/JavaStructures/Welcome.html` , Chapter 16