Readings for CSCI 241

Geoffrey Matthews

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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.
- \bullet $Introduction\ to\ Algorithms,$ 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

- \bullet 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

??? Priority Queues

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

??? Search Trees

- \bullet http://www.cs.williams.edu/~bailey/JavaStructures/Welcome.html , Chapter 14 $\ref{thm:local}$ Maps
- $\bullet \ \, \text{http://www.cs.williams.edu/~bailey/JavaStructures/Welcome.html} \; , \; \text{Chapter 15} \\ ??? \; \text{Graphs}$
 - http://www.cs.williams.edu/~bailey/JavaStructures/Welcome.html, Chapter 16