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Intro Data Structures Spring 2018

Lecture Schedule

Use any posted notes as support material for use in class to help you learn more effectively. You might want to print out or save a copy for yourself before class. Note that any handouts posted do NOT substitute for going to class. We will discuss much more than what you see in the slides below!

DATE	WEEK	LEC	TOPIC	FILES
1/16	1	1	Intro	pdf
1/17	1	2	Java Basics	pdf code
1/18	1	3	IO, Random, Loops, and Problem Solving	pdf code
1/23	2	4	Java Arrays and the Arrays class	pdf code
1/25	2	5	Classes, Objects and OOP	pdf code
1/30	3	6	File I/O, Exceptions, Array of Objects	pdf code
2/ 6	4	7	2d Arrays, ArrayLists, Efficiency (Big O)	pdf code
2/ 8	4	8	Inheritance	pdf code
2/13	5	9	Linked Lists (Intro)	pdf code
2/15	5	10	Implementing a generic Linked List class	pdf code
2/20	6	11	Implementing a generic Linked List class (part 2), Recursion	pdf code
2/27	7		Midterm review	
3/ 1	7		**Midterm (14%)**	
3/ 6	8	12	Interfaces (and JavaDoc)	pdf code
3/12-16	9		**SPRING BREAK**	
3/21	10	13	Iterators	pdf code
3/22	10	14	Stacks & Queues	pdf
3/27	11	15	Searching and Sorting	pdf code
3/29	11	16	Comparators, Intro to Trees, and Binary Search Trees	pdf code
4/ 3	12	17	Binary Search Tree Implementation	pdf code
4/10	13	18	BST (finalé), Priority Queues, and Heaps	pdf

4/12	13	19	Sets, Maps, and Hashing	pdf code
4/19-21	14	**Spring Carnival**		
4/24	15	20	Graphs	pdf
4/26	15	21	Inheritance, revisited	pdf code
5/ 3	16	22	Data Structures/Final Review	handout
5/10	17		**Final (25%)** — 1:00, GHC 4211	

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