

CSCI 201: Data Structures

Fall 2024

Lab 10: Course Reflection

What are some topics/keywords we covered this semester? Please enter your response at slido.com (# 2948807).

≡ cs201-lab10			2
△ What	t are some topics/keywords we	covered this semester?	18 음
	references	Stacks and Queues	BFS push graph
heap	static stacks has	public vs private shmaps	capacity Nodes
pull	Heaps queue DFS	linkedLists big 0	
	hashTables	graphs	Trees
	Arrays HashSet stack	sorting recursion	tree binary queues
		Add response	

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≡ cs201-lab′	10	
	What are some topics/keywords we covered this semester?	15 음
	Runtime Analysis HashTables 4	nash maps
	PSVM Hashmaps 00 nodes	
	Stack overflow right null pointer errors ?	stacks
	rotations spidermans ArrayLists hashbrowns	Queues
	BFS and DFS Sorting Algorithms Trees LinkedList Java	Classes
	Big O rightrightleftright rotation	
	Java 👽 Comple	exity
	Add response	

Revisiting our objectives for the semester.

- Write programs that efficiently implement and use data structures such as arrays, maps, linked lists, stacks, queues, trees and graphs.
- Design, develop, debug and test a Java program that uses appropriate standard libraries to efficiently solve a problem.
- Evaluate the time and space complexity of algorithms using empirical and mathematical analysis.

You implemented: sorting algorithms (bucket sort, radix sort), DIYArrayList, LinkedList, MaxHeap, DIYTreeMap, DIYHashMap, BFS/DFS.

In the context of: a few games, implementing a text editor, postfix calculator, word frequency counter, store cart price calculator, automatic maze solver.

import java.util.*;

Thank you:) Please complete the Course Response Form!

- Save a screenshot to submit with Lab 10.
- I will be next to room 224 by the windows for the rest of the lab (stop by if you have any questions).
- Final Exam: (released Tuesday 12/10 and due Friday 12/13)
 - Two components: Part 1 on Canvas and Part 2 (programming) submitted to Gradescope.
 - **Study Guide** will be posted today.

