

When?

Friday, May 12 8:00 – 9:00 AM

Sections on Final Exam

Test about five (5) pages in length.

| | |
|-------------------------------|----|
| Basic Concepts (T/F) | 20 |
| Big-Oh ($\mathcal{O}(N)$) ★ | 10 |
| Data Structures Concepts | |
| Short answer | 15 |
| Hashing | |
| Heaps | |
| Sorting/Searching ★ | 10 |
| Graphs ★ | 15 |
| Construction | |
| Traversal, etc. | |
| Programming | 20 |
| Recursion ★ | |
| Functions (2) | |
| Arrays/Lists/Trees | |

Topics on Final

- Big-Oh ($\mathcal{O}(N)$) ★
- Hashing
- Heaps
- Sorting/Searching ★
 - Selection sort, Merge sort, and Quick sort
- Graphs ★
 - Construction and Traversals (BFS and DFS)
- C++ Basics: Variables (naming, declaration, initialization), File I/O
- Arrays (one and two- dimensional)
- Classes (declaration, definition, templates)
- Linked Lists, Stacks, Queues
- Trees, trees, and more trees
 - Traversals
 - Binary Search Trees
 - Other trees (AVL, Red-Black, etc.)

When?

Friday, May 12 8:00 – 9:00 AM

Sections on Final Exam

Test about eight (8) pages in length.

| | |
|-------------------------------|----|
| Basic Concepts (T/F) | 20 |
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| Data Structures Concepts | |
| Short answer | 15 |
| Hashing | 10 |
| Heaps | 10 |
| Sorting/Searching ★ | 20 |
| Graphs ★ | 15 |
| Programming | 30 |
| Recursion ★ | |
| Functions (3) | |
| Arrays/Lists/Trees | |

Topics on Final

- Big-Oh ($\mathcal{O}(N)$) ★
- Hashing
- Heaps
- Sorting/Searching ★
 - Selection sort, Merge sort, and Quick sort
- Graphs ★
 - Construction and Traversals (BFS and DFS)
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