

# Semester Review for Tech I. S.

Unistatalk  
4/17/17  
A2

Learned & Implemented (incode) the  
Following DATA TYPES:

Linked Lists - T2W1  
Arrays - T2W1  
Stacks - T2W2  
Trees - T1W5  
Graphs - T2W6  
Dictionaries/Hash Maps - T2W6  
Queues - T1W4  
Sets/Frozen Sets - T2W1  
Min/Max Heaps - T2W4  
Minimum Spanning Trees - T2W6

Learned & Programmed Interpretations  
of the following ALGORITHMS:

## Graph/Tree TRAVERSALS

- Breadth First Search - T2W1
- Depth First Search - T2W1
- Greedy Best First - T2W1
- A & A\* - T2W1
- Dijkstra's Algorithm - T2W1 - T2W5

## SORTING Algorithms - T2W2

- Selection Sort
- Merge Sort
- Insertion Sort
- Heap Sort
- Quick Sort
- Bubble Sort

## GREEDY ALGORITHMS

- T2W6 - Kruskal's for  
Min. Spanning Trees
- Prim's ST Algorithm

## Heuristic Algorithms - T2W5