

Order of Complexities

1. Arrays, ArrayLists, Singly Linked List

	Array	ArrayList	LinkedList	
Find e by index				
Find element by value				
Clone a list				
	Array	ArrayList	With Tail	Without Tail
Add e to interior				
Remove e from interior				
Add e to end				
Remove e from end				

2. Stacks

Arrays	Top always index	Bottom always index
Push		
Pop		
Singly LinkedLists	Top is head	Top is tail
Push		
Pop		

3. Queues

Arrays	front always index	rear always index
Enqueue		
Dequeue		
Singly LinkedLists	Front is head	Front is tail
Enqueue		
Dequeue		

4. Binary trees

	Search Tree	Balanced Search Tree	[Max] Heaps
Finding min value			
Finding max value			
Finding a target			
Print all elements			
Insert			
Remove			

5. Searching algorithms

Linear/Sequential Search:

Binary Search:

6. Sorting Algorithms

Selection Sort:

Insertion Sort:

Bubble Sort:

Merge Sort:

Quick Sort:

Heap Sort:

Counting Sort:

Radix Sort: