

# CSCI 162 Homework 6

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Due: Oct 19th @ 11:59PM

1. What is the difference between a stack and a queue?

2. For each of the following list the complexity of each operation in terms of Big-O

	Insert At...		Remove From...		Access
	<i>Begin</i>	<i>End</i>	<i>Begin</i>	<i>End</i>	
Array (data)					
Linked List (head)					
Linked List (head + tail)					
Linked List (Doubly-Linked)					

3. What are the three operations for a stack?

4. What are the three operations for a queue?

5. If you had to implement a Stack **and** a Queue using the same underlying data structure, which one would you use and why?