

Info6205\_Summer18\_Quiz3 35 minutes

Questic Stack	on - 1	SCORE: 5 points
Which Da	ta-Structure is more apt for implementing Stack?	
	Array	
•	LinkedList	
	Vector	
	HashMap	
Questic Linked-L		SCORE: 5 points
What is th	ne time complexity to count the number of elements in the linked	
	O(1)	
•	O(N)	
	O(log N)	
	None of the mentioned	
Questic Evaluate	on - 3 the following:	SCORE: 10 points
Evaluate the following reverse polish notation: 1 2 3 + 4 5 * * + 2 10 15 + * + 1 17 2 5 4 + * + + -		
Question - 4 Dijkstra Two-Stack algorithm		SCORE: 30 points
Your task is to implement the push, pop and peek methods for a stack to be used to solve the Dijkstra Two-Stack algorithm. A general grow method is available to you. This grows the stack when the stack is full. You will also have certain helper methods to check whether the stack is full or empty and a method which returns the size of the array.		

https://www.hackerrank.com/x/tests/236013/questions/download? authkey=dfa19533f721060ac89fa553981390d2 & nocheckcdn=1...

You are  ${\bf NOT}$  allowed to change anything else. Just complete the TODOs

and implement the Push,Pop and Peek method. Remember, if you have any questions or doubts, ask us.