

For each implementation of each data structure, give a *tight bound* on the expected running time of the given operations, assuming that the data structure has n items in it before the operation is performed.

Stack	ArrayList	linked list	array
push			
pop			
peek			
size			
isEmpty			

Queue	ArrayList	linked list	array	circular array
enqueue				
dequeue				
first				
size				
isEmpty				

List	array ¹	ArrayList	linked list (no tail pointer)
addToFront			
addToEnd			
addAfter			
removeFirst			
removeLast			
first			
last			
size			
contains			
isEmpty			

¹ Assume that the array is of fixed capacity and that we keep track of the index of the last item in the array.