QUIZ JAVASCRIPT

A stack is a useful data structure to maintain the arrival of guests at a party. Complete this script to add the guest names to a stack instance and print out the guest who arrived last (without removing it). Use the basic methods of the Stack class.

How do we add and remove items from a Stack data structure?

We add an item anywere to a Stack with an insert operation based on its location inside the stack. We remove an item anywhere from a Stack with a remove operation based on its location.

We add an item to a Stack by an insert operation replacing the current first item of the stack. We remove an item from the Stack by a remove operation which removes the first item off the stack.

We add an item to a Stack with an append operation to the end of the stack. We remove an item from a Stack with a pop operation from the top of the stack.

We add an item to a Stack by the push operation which only adds to the top of the stack. We remove an item from a Stack by the pop operation which only removes the top item.



Correct!! These are the only two operations supported by the Stack to add and remove an item from it.

The Javascript Stack class that we implement needs to support three operations. Which of these is NOT one of the three? **Get Bottom** Correct! The Stack can only push, pop, and peek. Peek Pop Push What classes does the JavaScript stack class use internally? LinkedList, Item Array, Node LinkedList, Node Excellent! You've been working with these helper classes. LinkedList, Array The stack data structure supports 3 basic operations: push, pop, and peek. In the following Javascript .push() implementation, fill in the code with the correct condition. push(value) { if (this.size < this.maxSize) {</pre> this.stack.addToHead(value); this.size++; } else { throw new Error('Stack is full');

You got it!

The Stack data structure supports 3 basic operations: push, pop, and peek. In the following Javascript .peek() implementation, fill in the code with the correct condition.

```
peek() {
    if ( !this.isEmpty() ) {
        return this.stack.head.data;
    } else {
        return null;
    }
}
You got it!
```

The Stack data structure supports 3 basic operations: push, pop, and peek. In the following Javascript .pop() implementation, fill in the code with the correct condition.

```
pop() {
    if ( this.size !== 0 ) {
        const value = this.stack.removeHead();
        this.size--;
        return value;
    } else {
        throw new Error('Stack is empty');
    }
}
You got it!
```