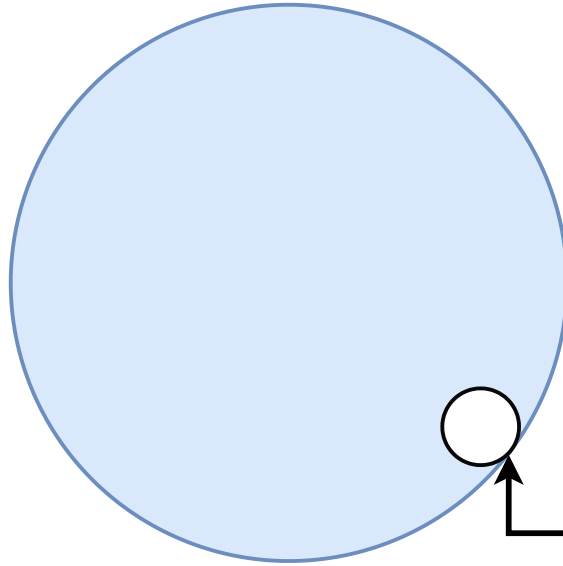


Data Structures

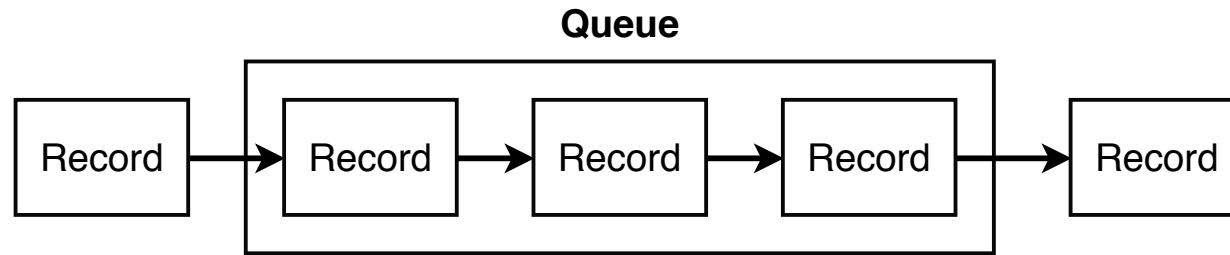
Ways of organizing information with optimal 'runtime complexity' for adding or removing records

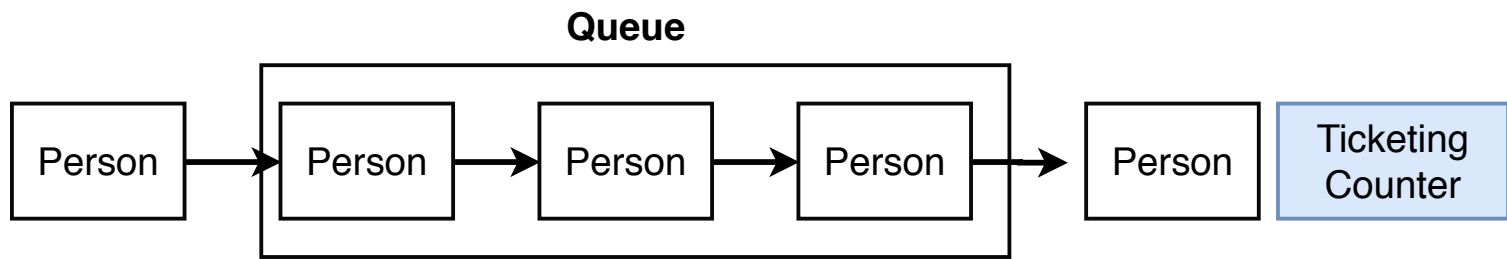
Javascript natively implements several data structures. **You will still be asked about 'inferior' data structures.**

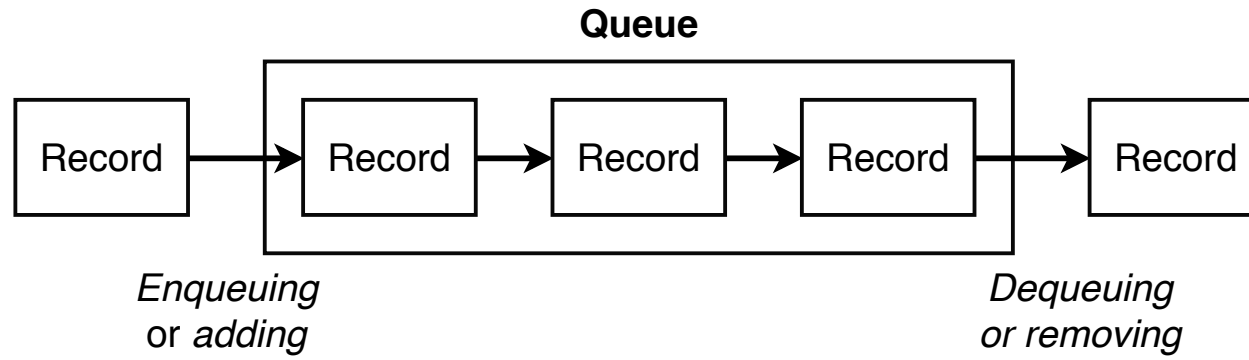
Functionality of
a JS Array



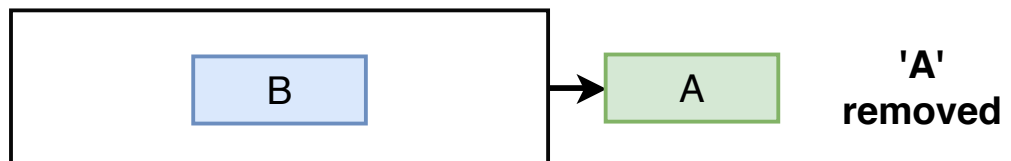
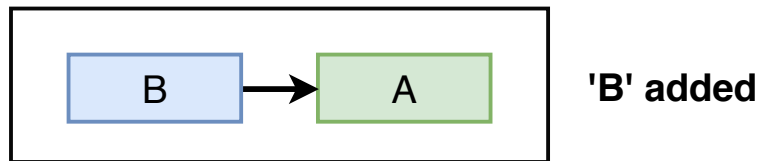
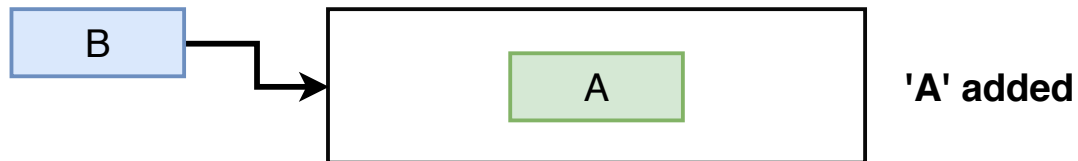
What a
queue does





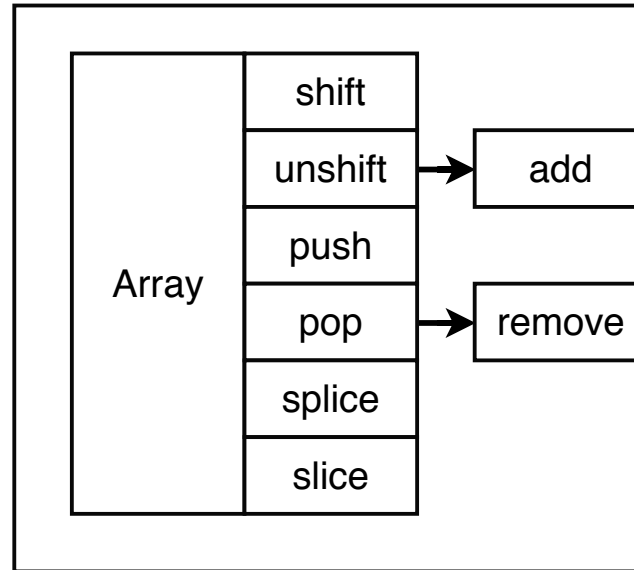


**First In First Out
F-I-F-O**

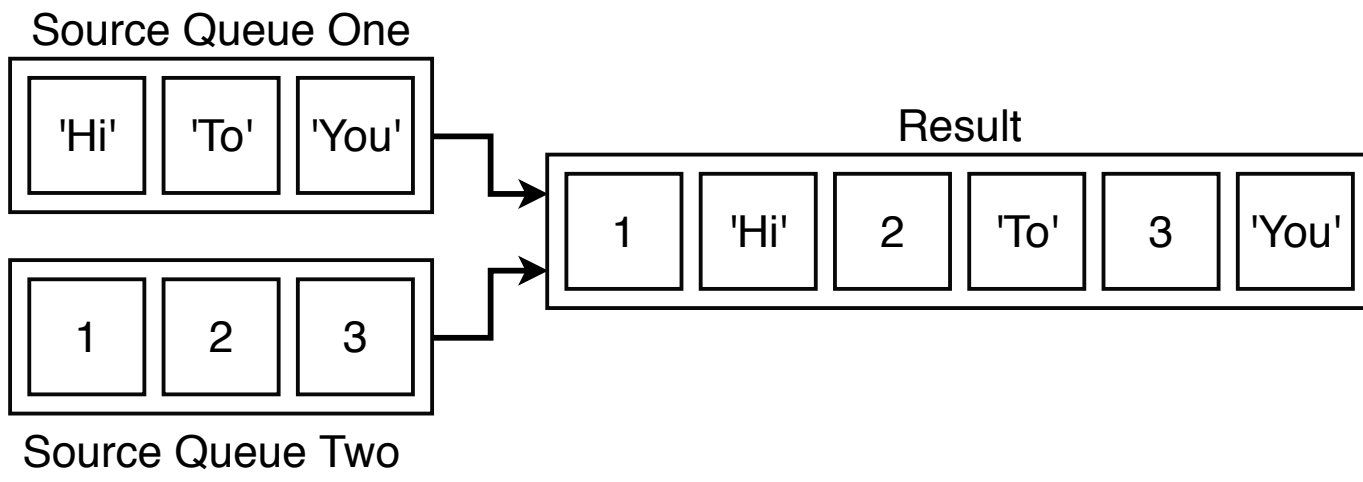


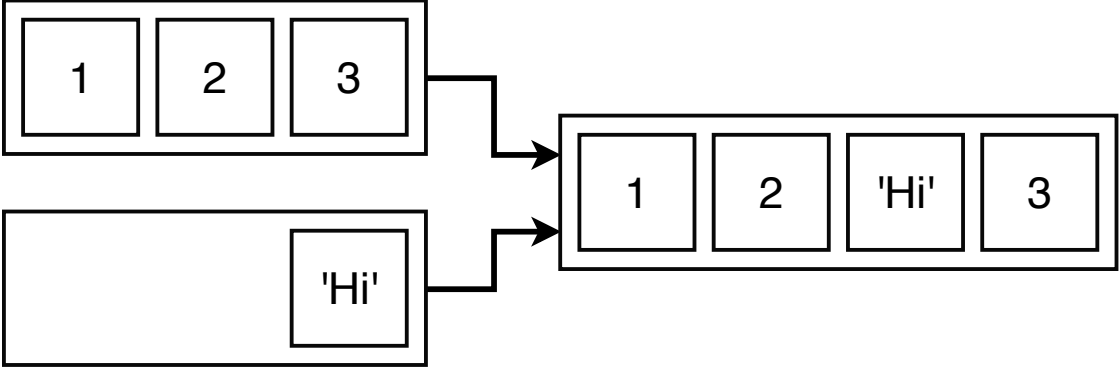
Queue	Array Equivalent
Add to queue	array.unshift();
Remove from queue	array.pop();

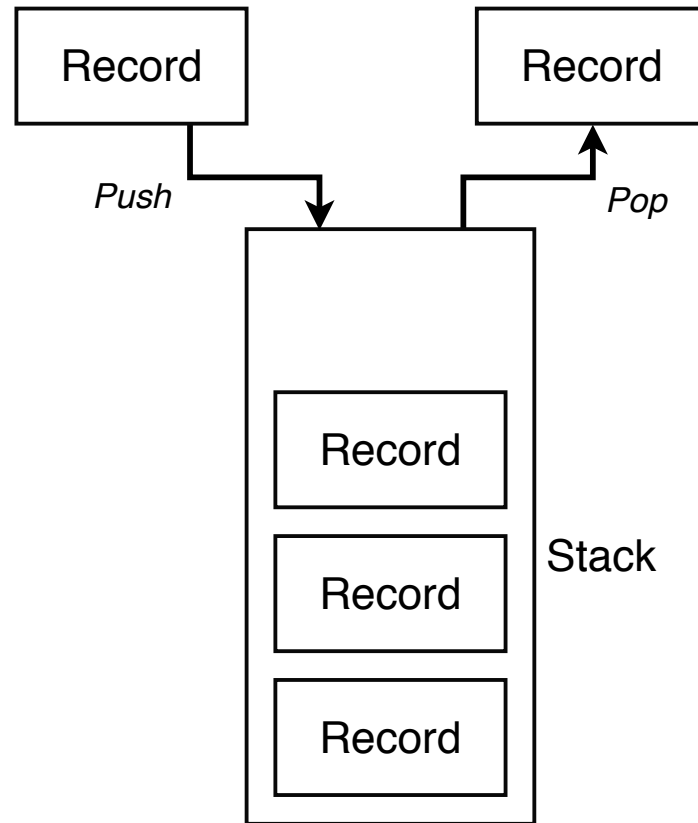
Queue Class

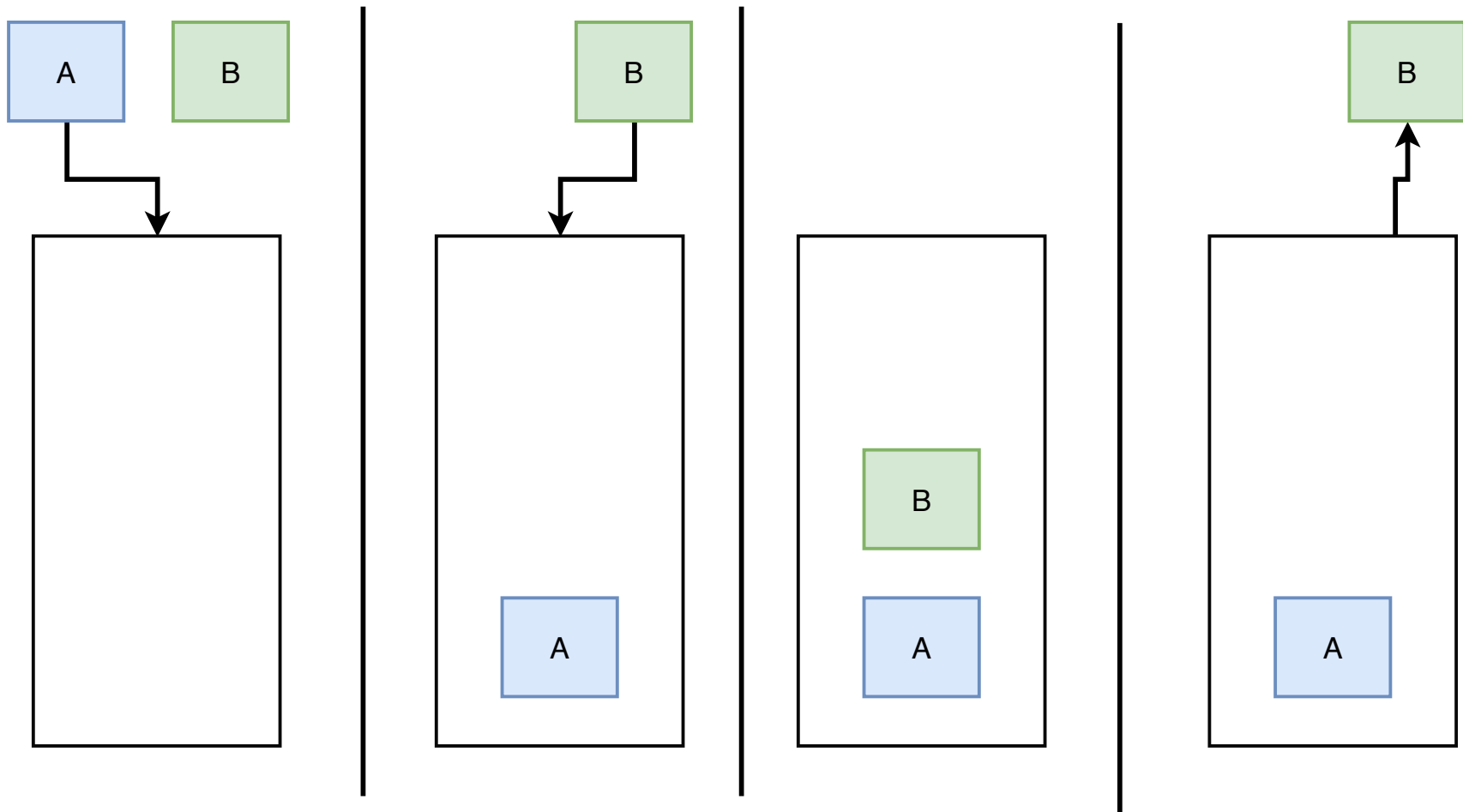


To...	Run This
Create a new, empty queue	<code>const q = new Queue();</code>
Add a record to a queue	<code>q.add(1);</code>
Remove record at the end of a queue	<code>q.remove();</code>



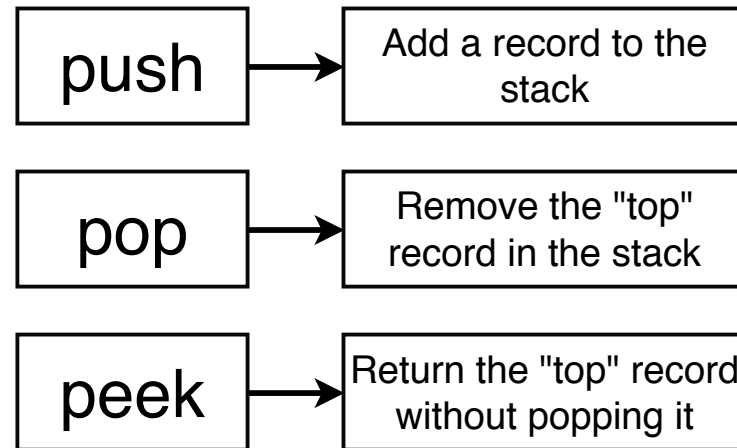


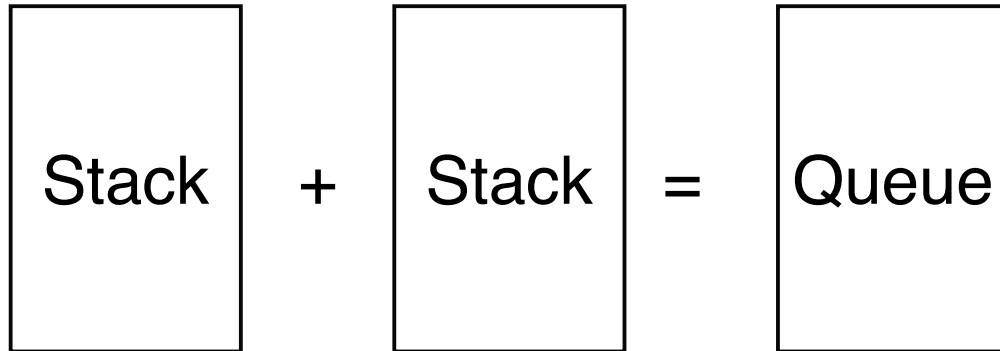




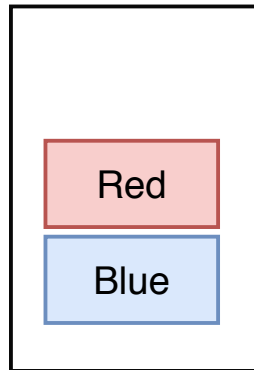
First In Last Out
FILO

Stack Methods





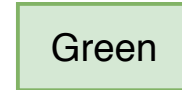
Add



Stack A

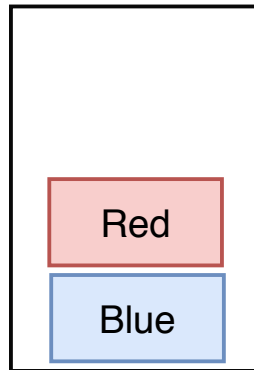


Stack B



*Remember, we want a Queue, so follow
'First In First Out'*

Remove



Stack A

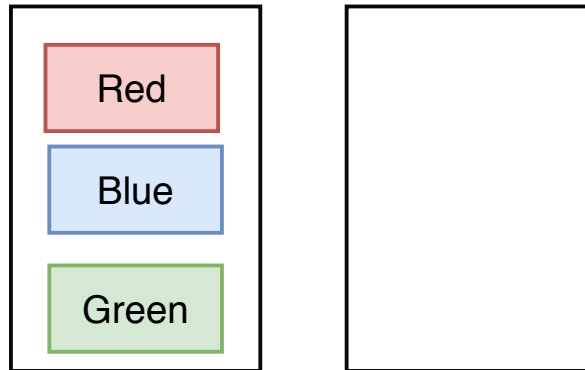


Stack B



*Remember, we want a Queue, so follow
'First In First Out'*

Peek



Stack A

Stack B

*Remember, we want a Queue, so follow
'First In First Out'*