CS 2420
Fall semester section 01
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Notes chapter 16

Summary and array based implementation of the stack and queue
A linked list based implementation of the stack and queue

Stacks

Push	adds one
Pop	takes one out
Top	read the top
TopAndPop	took it off and have it
isEmpty	check to see if empty
makeEmpty	check to see if its empty

All basic operations so be constant time

First in last out

Queues

Enqueue	get in line
getFront	look at the first thing
Dequeue	get out of line
isEmpty	check if empty
makeEmpty	make it empty

Called a line in America

All basic operations so be constant time

First in first out

With linked list
Stacks is about the same but the memory is worse
Queues is memory that is worse. Better then add because we don't have to worry about wrap around.

Double ended queue
You can add to the front
You can add to the rear
You can remove front
And remove from the rear