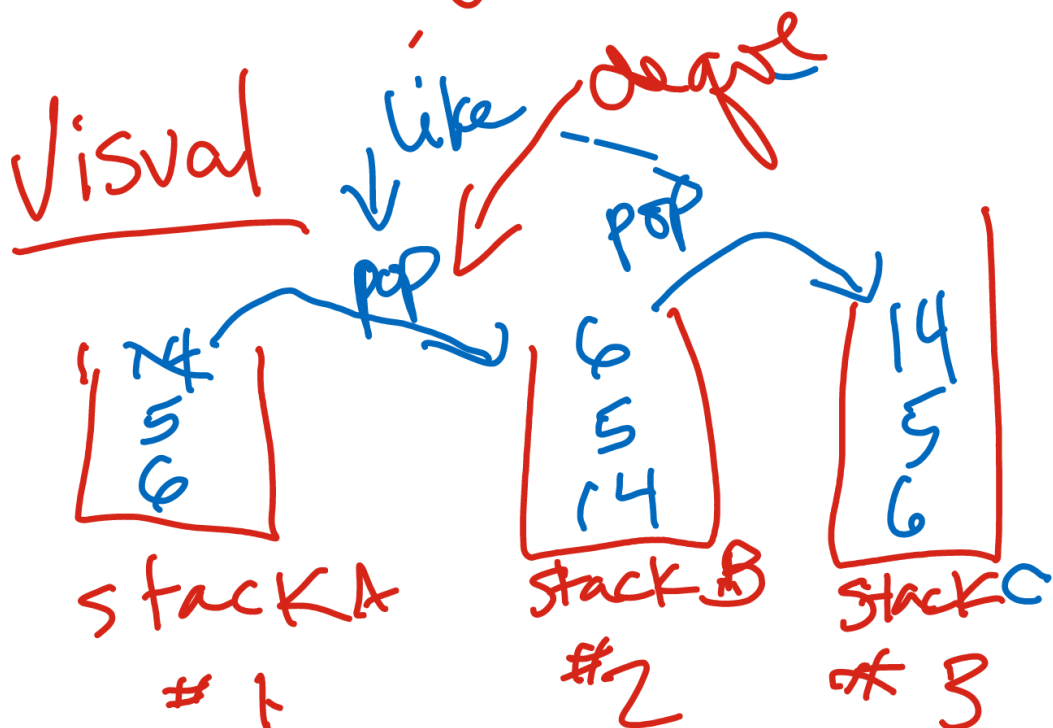
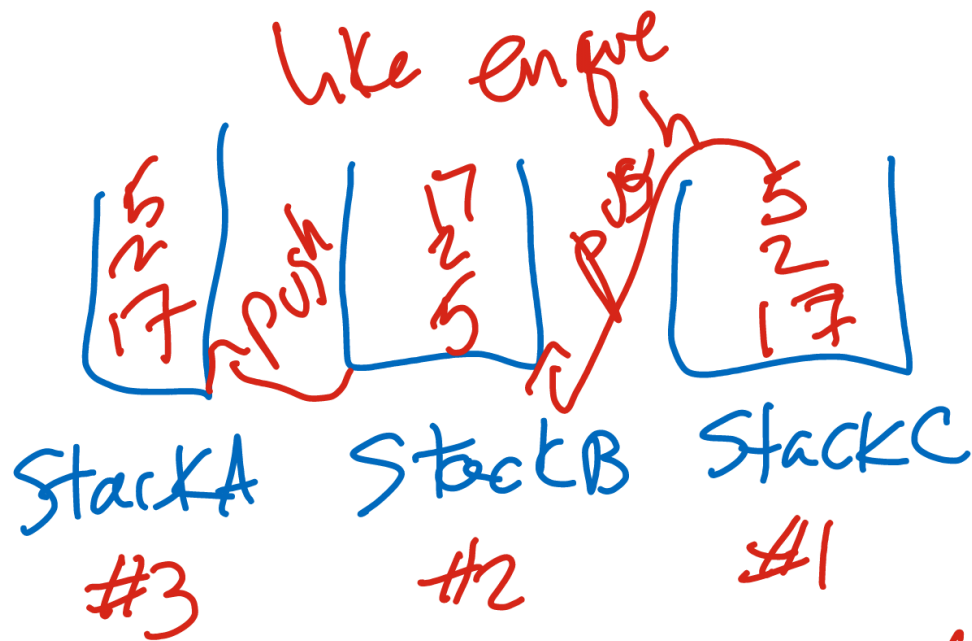


Whiteboard 11

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Create enqueue & dequeue methods which take in a value using stack methods pop & push.
@ 3 test for each method.





Stack C, push = Queue (enqueue)
 → push

Stack A, pop = Queue.dequeue

Big O(1) space
 O(n) time

Algorithm

- first create an empty Queue
- * create enqueue method using stack.push
- * test 1 w/empty Queue
- * create dequeue method using stack.pop
- * test 1 w/empty Queue
- * use for loop w/counter to move values from Stack to Queue
- * create toString method for test

Pseudo Code

Create Class
instantiate empty Queue

create enqueue method
that takes in a value
(much like LinkedList
append method we
created in early
challenge)

instantiate counter
for (i = 0; counter <
Queue.size; i++)

(in side for loop)

Queue^Q = new Stack;

Q.push(value)

end loop

return queue.toString

build toString method @
start

pub String (Queue)

String = ""
Queue[i] = String i

String ++ j

Build deque method
(much like opp of prepud
from earlier challenge)
instantiate counter = 0
for (i = 0; counter <
~~Q.size~~ Q.size; i++)

Stack.pop() element (Stack
.size - 1) = Q.reve(i);

end loop

return Q.tostring

end program

Tests

enqueue value on empty

Queue

enqueue " on 1 ele

Queue

enqueue " on 3 ele

Queue

dequeue value on empty?

error?

dequeue value on 1 ele

" " on 3 ele

Queue

(took about 45 min)