

Create a new Queue class  
Using two Stack instances  
Using enqueue, and dequeue

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Class Queue  
Constructor  
this.stackA = Stack (new) {}  
this.stackB = Stack (new) {}

✱ Push and Pop ✱

- New constructor with two stacks - Empty to start
- Cannot create array
- Create new Class Queue
- Create new constructor that will create two stacks
- Push new values into the new stack (A)
- Pop values from stack A and push those values into stack B, but in the reverse order
- Set a new variable to each popped element and push that element into the new stack in the reverse order
- loop through values in stack A and for those values enqueue from A then queue into B.

Do this as  
popped from  
stack A



Stack-A  
(empty)



Stack-B  
(empty)

At Beginning

- myQueue = new Queue  
 myQueue.enqueue(1)  
 " " (2)  
 " " (3)



Stack-A  
(after push)



Stack-B  
(after pop of A)

As Values Pushed (enqueue)



Stack-A  
(first pop)

for  $i: 0, 1 < \text{Stack.length}?$

stored  
placeholder = 3

push



Stack-B  
(first push)

