









Challenge 4: Implement a Queue Using Stacks

We have seen the difference between stacks and queues, but is it possible to make one from the other? Let's find out.

We'll cover the following

- Problem Statement
 - Input
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Problem Statement#

You have to implement the enqueue() and dequeue() functions using the MyStack class we created earlier. enqueue() will insert a value into the queue and dequeue() will remove a value from the queue.

Input#

- enqueue(): A value to insert into the queue
- dequeue(): Does not require any input



Output#







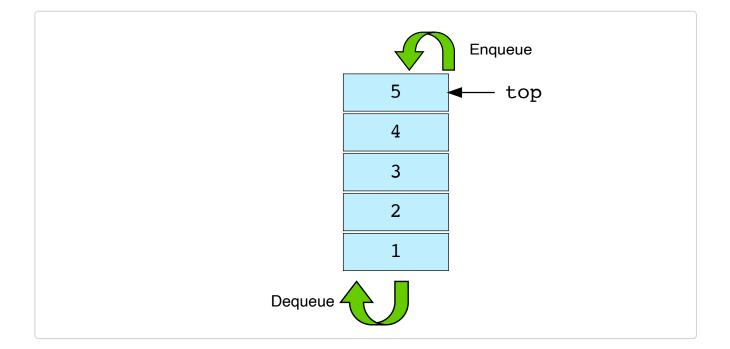
- enqueue(): Does not return anything
- dequeue(): Pops out and returns the oldest value in the queue

Sample Input#

```
value = 5 # [1, 2, 3, 4]
enqueue(value)
dequeue()
```

Sample Output#

```
True # [1, 2, 3, 4, 5]
1 # [2, 3, 4, 5]
```



Coding Exercise#



Take a close look at the problem and design a step-by-step al photography before jumping on implementation.

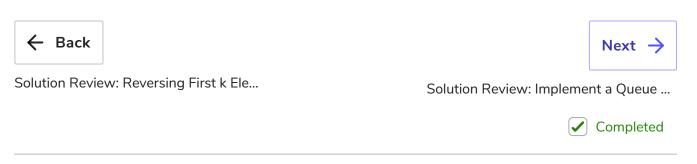
You can make helper functions or add members to the NewQueue class, but the main functionality should be built on stacks.

This problem is designed for your practice, so try to solve it on your own first. If you get stuck, you can always refer to the solution review.

Good luck!



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