

T43800_en

For example, if `q` is an instance of the class `LinkedListQueue` that represents the following *queue*

after executing the statement `x = q.rotate()`, `x` will be `5` and the object `q` will represent the *queue*

Although the effect of `rotate()` on a non-empty queue `q` is the same as the combination

your implementation should be more efficient than making two separate calls.

You should also override the *special method* `__str__` of the class **LinkedList** so that the contents of an instance of this class representing a queue of integer numbers can be printed without making any call to the public method **dequeue**.

```
def rotate(self):
    # Insert your implementation below

def __str__(self):
    # In the implementation of this method, assume the queue instance
    # can only contain integer numbers. This is only true in the context
    # of this problem.
    # Insert your implementation below
```

Sample output 1

```
5 2 -1 3 0 8 6
rotate returns: 5
2 -1 3 0 8 6 5
```

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