Challenge 1: Generate Binary Numbers from 1 to n using a Queue

Can you generate binary numbers from 1 to any given number "n"?

We'll cover the following

- Problem Statement
  - Input
  - Output
  - Sample Input
  - Sample Output
- Coding Exercise

Problem Statement#

Implement a function `find_bin(n)` which will generate binary numbers from 1 till n in the form of a string using a queue. The `MyQueue` and `MyStack` classes are provided in all of these challenges. An illustration is also provided for your understanding.

Input#

A positive integer n

Output#

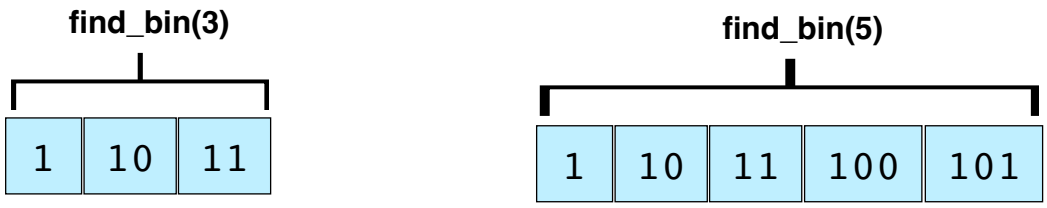
Returns binary numbers in the form of strings from 1 up to *n*

Sample Input#

```
n = 3
```

Sample Output#

```
result = ["1","10","11"]
```



Coding Exercise

Take a close look and design a step-by-step algorithm first before jumping onto the implementation. 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 provided in the solution section. Good Luck!

main.py

DoublyLinkedList.py

Queue.py

```
from Queue import MyQueue

def find_bin(number):
    # Write your code here
```

```
    result = []
    queue = MyQueue()
    queue.enqueue("1")
    for i in range(number):
        result.append(queue.dequeue())
        queue.enqueue(result[i] + "0")
        queue.enqueue(result[i] + "1")


    return result
```

Back

Queue (Implementation)

Next

Solution Review: Generate Binary Nu...

Completed