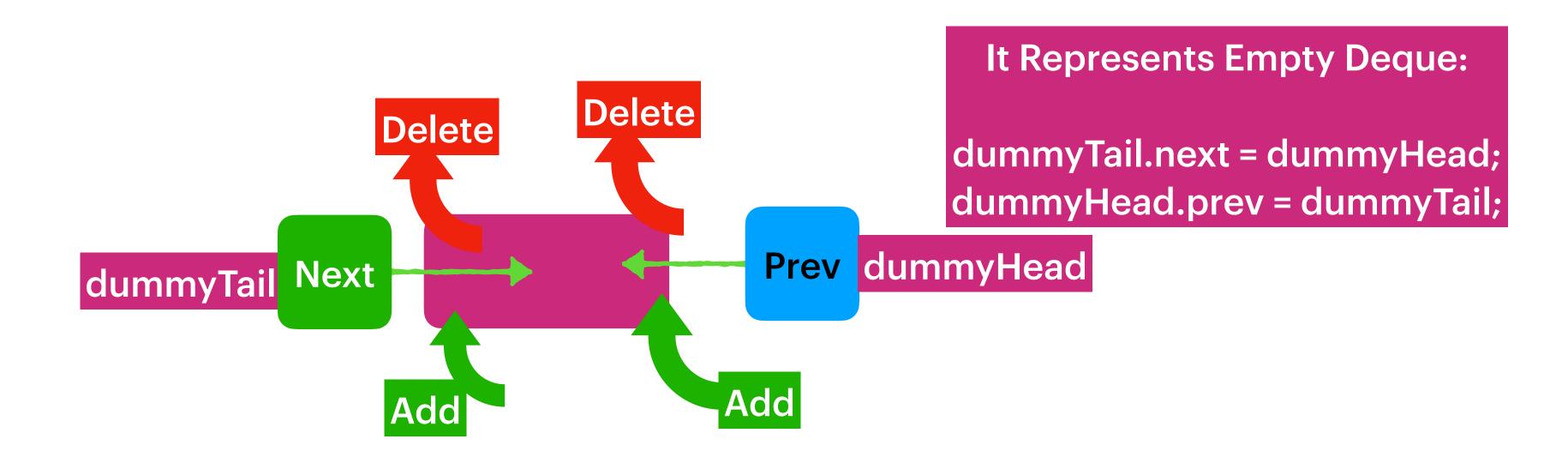
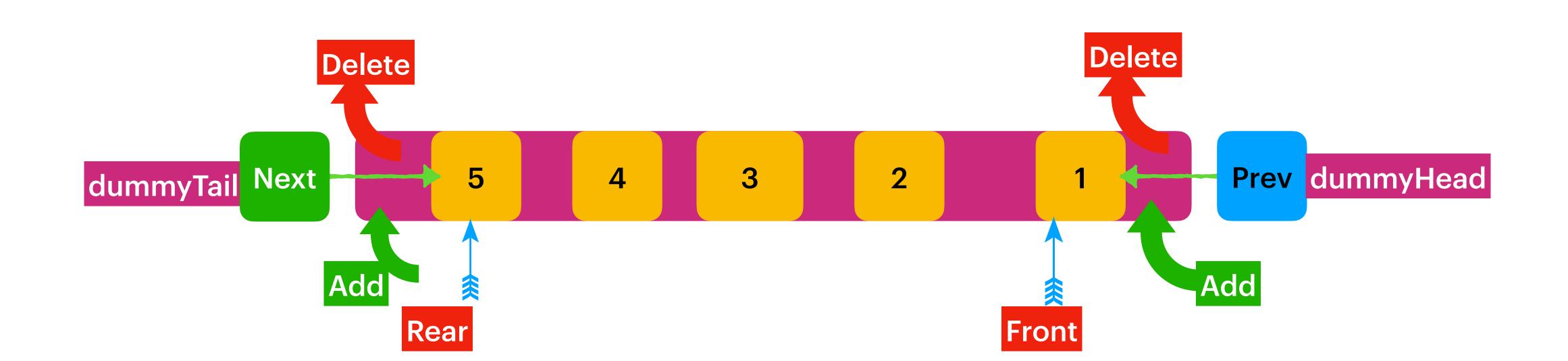
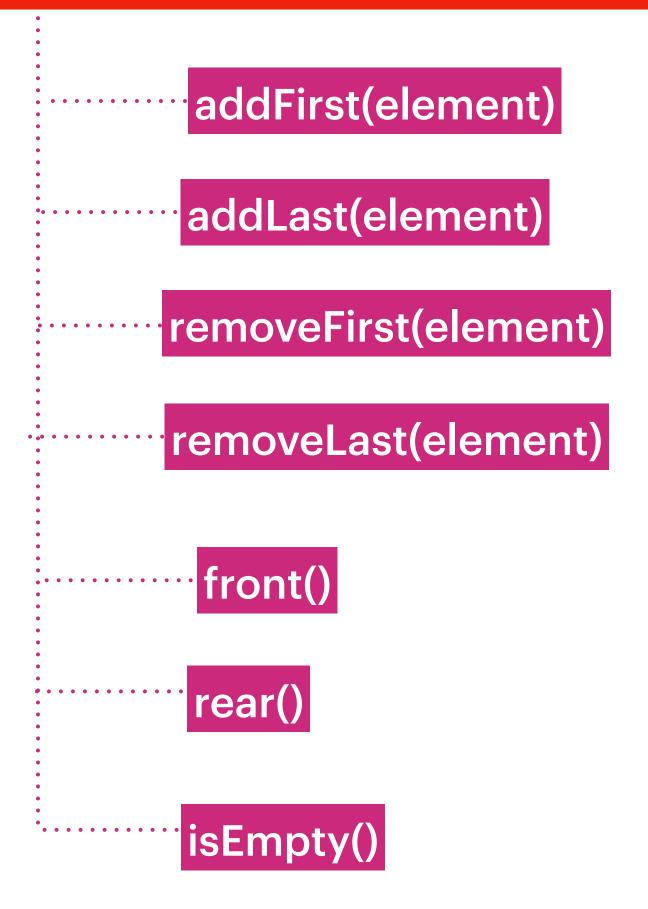
Deque: Its a double ended queue. We can insert and delete from front & rear.





Design Deque:

It's a double ended Queue. We can add, remove from front & rear.



Moving Average from Data Stream

Given a stream of integers and a window size, calculate the moving average of all integers in the sliding window.

Implement the MovingAverage class:

MovingAverage(int size) Initializes the object with the size of the window size. double next(int val) Returns the moving average of the last size values of the stream.

```
Input
["MovingAverage", "next", "next", "next", "next"]

[[3], [1], [10], [3], [5]]

Output

[null, 1.0, 5.5, 4.66667, 6.0]

Explanation

MovingAverage movingAverage = new MovingAverage(3);

movingAverage.next(1); // return 1.0 = 1 / 1

movingAverage.next(10); // return 5.5 = (1 + 10) / 2

movingAverage.next(3); // return 4.66667 = (1 + 10 + 3) / 3

movingAverage.next(5); // return 6.0 = (10 + 3 + 5) / 3
```