

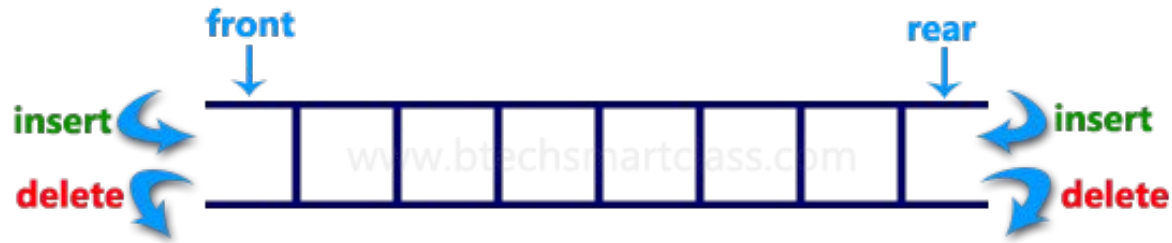
Deque(Double Ended Queue) Data Structure

Deque or Double Ended Queue is a type of queue in which insertion and removal of elements can be performed from both the ends (front and rear). That means, we can insert at both front and rear positions and can delete from both front and rear positions.



Representation of Deque

Thus, deque **does not** follow FIFO (First In First Out) rule.

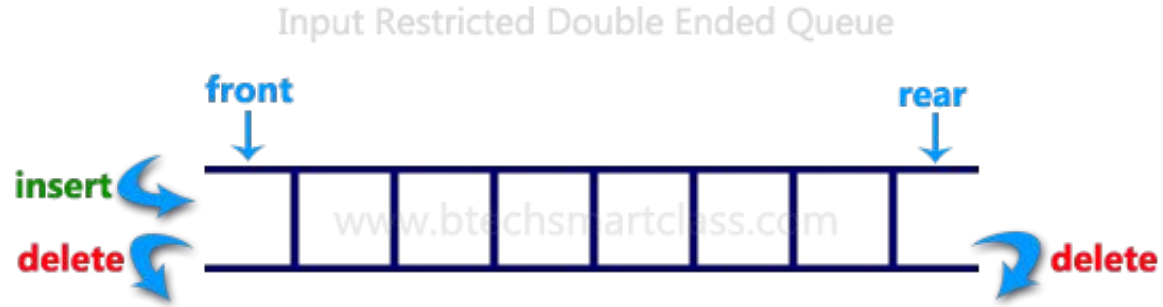


Types of Deque

- **Input Restricted Deque**
- **Output Restricted Deque**

Input Restricted Deque

In this deque, input is restricted at a single end but allows deletion at both the ends.



Output Restricted Deque

In this deque, output is restricted at a single end but allows insertion at both the ends.

