

105/2020

Deque

Double Ended Queue.

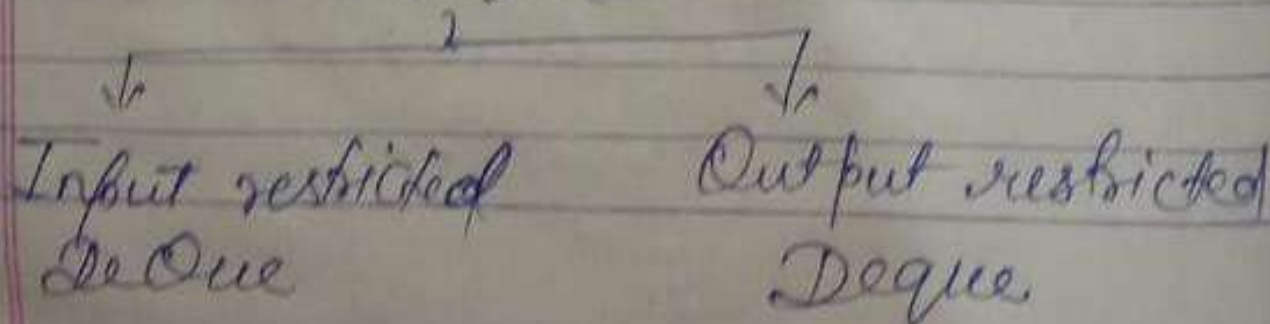
Deque is a Linear Data Structure which adds a new element at the rear end and deletes existing element from the front ends. But as its name suggested specified, this type of que. has both ends ^{sides} working as front ends and rear end. This que is also follows the principal of FIFO.

Deque



It means we can say we can add from both ends as well as delete from both ends.

Deque



1) Input Restricted Deque \Rightarrow



In this type of Deque deletion can be done from both side but addition can be done from only one side. This is because it has front ~~from~~ at both end but rear at only one end.

(ii) Output Restricted Deque \Rightarrow



This type of Deque has rear at both ends but front at only one end. That is why additions can be done from both ends deletion but Deletion from only one end.