

Double Ended Queue (DEQueue)

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→ In DEQueue, we don't follow the FIFO principle. As the name suggests, this variant of the queue is double-ended. This means that unlike normal queues where insertion could only happen at the rear end, and deletion at the front end, these double-ended queues have the freedom to insert and delete elements from the end of their choice.

→ Double-ended queue, hence have the following characteristics:

- ① They don't follow the FIFO discipline.
- ② Insertion can be done at both the ends of the queue.
- ③ Deletion can also be done from both ends of the queue.

→ Restricted Input DEQueue:

→ Input restricted DEQueue don't follow allow insertion on the front end. But you can delete from both ends.

→ Restricted Output DEQueue:

→ Output restricted DEQueue don't allow deletion from the rear end. But you can perform the insertion on both the ends.