DSA through C++

Queue_Data_Structure



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Agenda

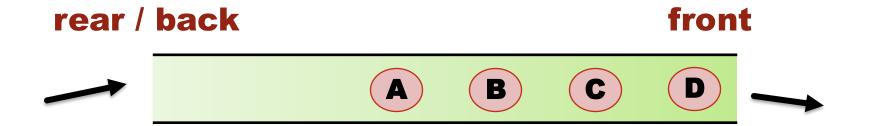
- > What is Queue?
- Operations on Queue
- > Ways to implement Queue

What is Queue?

- Queue is a linear Data structures
- Working principle of Queue is First in First Out (FIFO)



- In stack only one end is open for insertion and deletion
- In queue one end is open for insertion and another end is open for deletion



- Insertion is done on one end known as rear or back
- Deletion is done on another end known as front

Real world examples of Queue

- Ticket Counter
- Class Batches
- Pips of water



Operations on Queue



- 1. Insert enqueue
- 2. Delete dequeue
- 3. getFront
- 4. getBack

Ways to implement Queue

- Using Arrays
- Using Dyn Arrays
- Using Linked List