

# About Queue(Using Array)

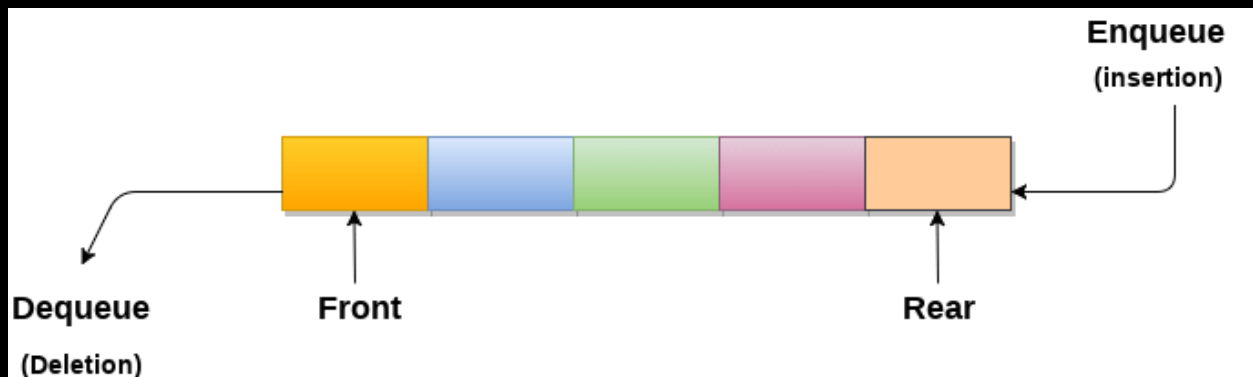
Queue is an abstract data structure, somewhat similar to Stacks. Unlike stacks, a queue is open at both its ends. One end is always used to insert data (enqueue) and the other is used to remove data (dequeue). Queue follows First-In-First-Out methodology, i.e., the data item stored first will be accessed first.

A queue can be defined as an ordered list which enables insert operations to be performed at one end called **REAR** and delete operations to be performed at another end called **FRONT**.

Queue is referred to as First In First Out list.

Insertion is known as **enqueue**

Deletion is known as **dequeue**



## enqueue()

To add element in the queue from the rear

Big O:  $O(1)$  constant

## dequeue()

To remove an element from the queue from the front.

Big O:  $O(n)$  linear

## peek()

To read in front of the queue.

Big O:  $O(1)$  constant

## isFull()

To read in front of the queue.

Big O:  $O(1)$  constant

## isEmpty()

To read in front of the queue.

Big O:  $O(1)$  constant

## References

[Geeksforgeeks](#)

[Programiz](#)