

# QUEUE

A **queue** is a linear data structure that follows the **First In, First Out (FIFO)** principle. This means the element added first is the one that gets removed first—just like a line of people waiting for a service.

Basic operations:

- enqueue() – add an element to the rear
- dequeue() – remove an element from the front
- peek() – look at the front element without removing it
- isEmpty() – check if the queue is empty

Types of Queues:

- **Simple Queue**
- **Circular Queue**
- **Priority Queue**
- **Deque (Double-Ended Queue)**

YouTube Resources:



Learn Queue in 10 minutes (Bro Code)

<https://youtu.be/nqXaPZi99JI?si=-q71iy5NJigSCnCW>



Queues in 3 minutes (Michael Sambol)

<https://youtu.be/D6gu-tmEpQ?si=yjO8d3uZy5NILxke>