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# **DEPARTMENT OF INFORMATION TECHNOLOGY**

## **19CSB302 – COMPUTER NETWORKS**

III YEAR V SEM

### **UNIT 3 – TRANSPORT LAYER**

Quality of Service

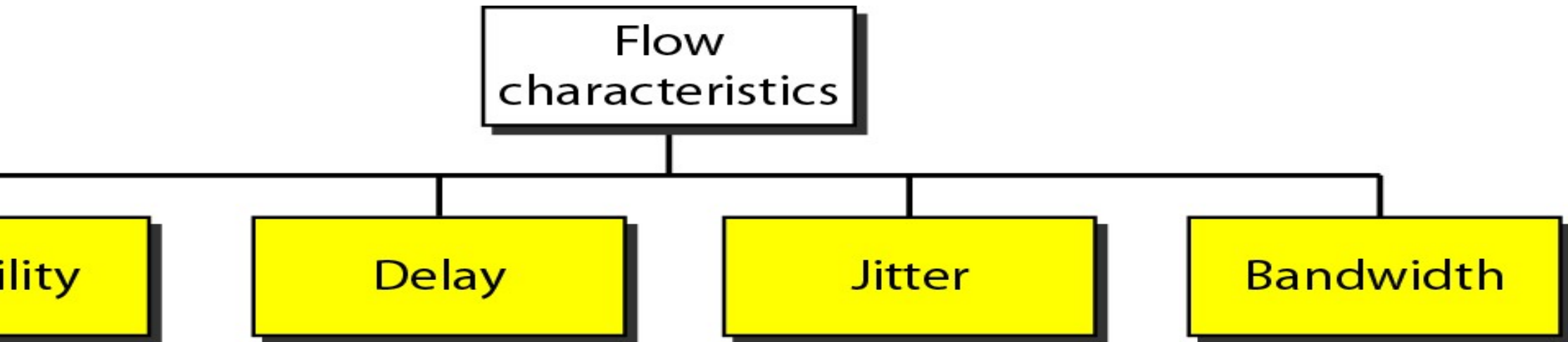
**Quality of Service (QoS) is an internetworking issue discussed more than defined. We can informally describe QoS as something a flow seeks to attain.**

**Discussed in this section:**

**Characteristics**

# 5 *Flow characteristics*

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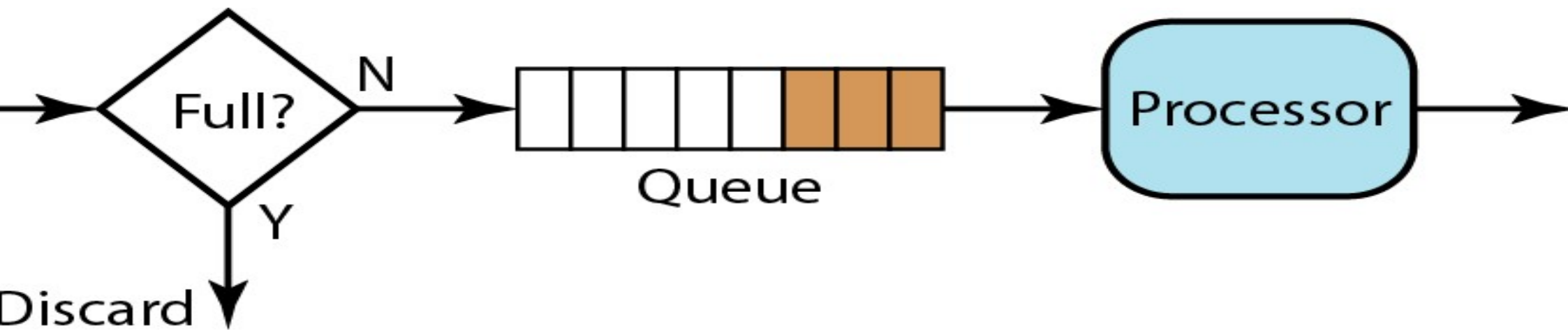
*24.5 we tried to define QoS in terms of metrics. In this section, we discuss some techniques used to improve the quality of service. We discuss common methods: scheduling, traffic control, and resource reservation.*

*discussed in this section:*

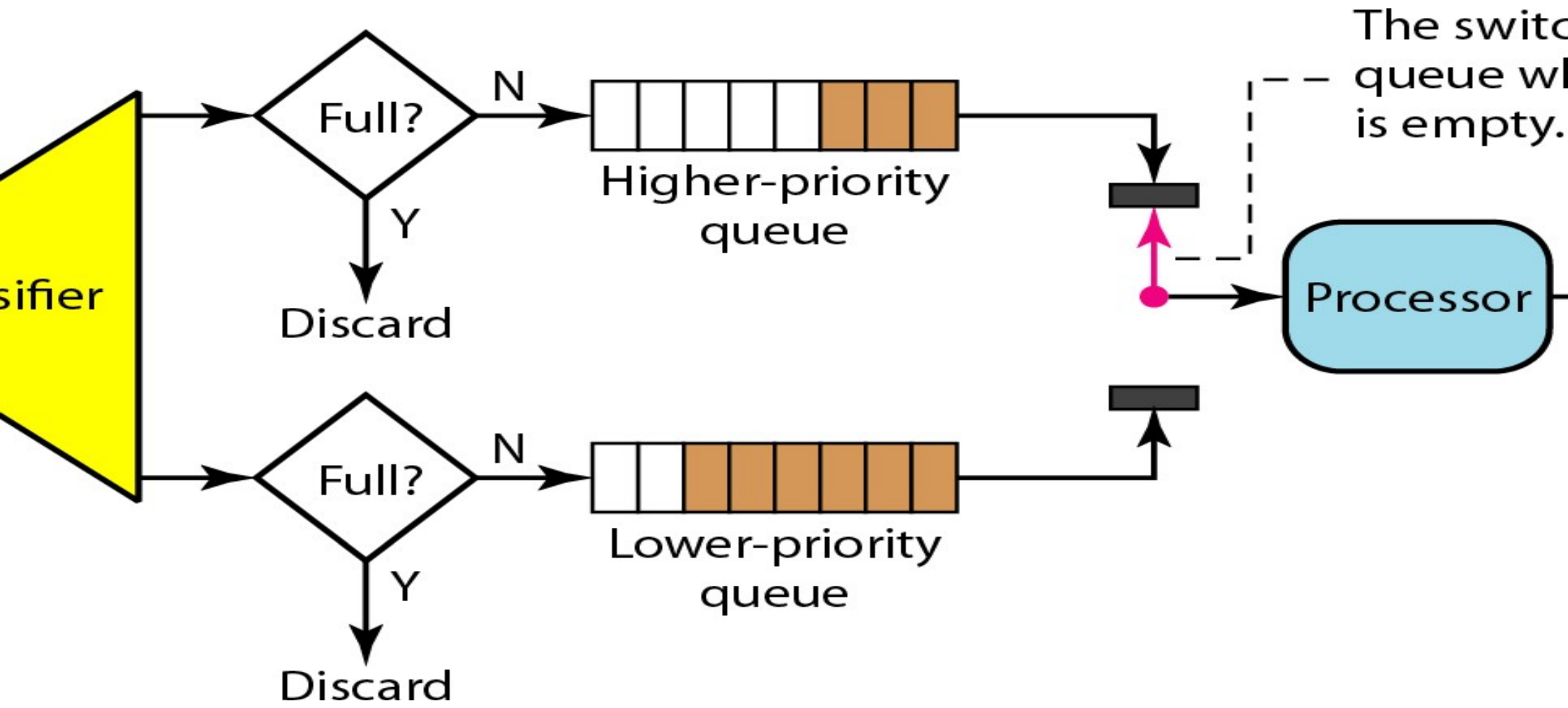
**traffic**

**reservation**

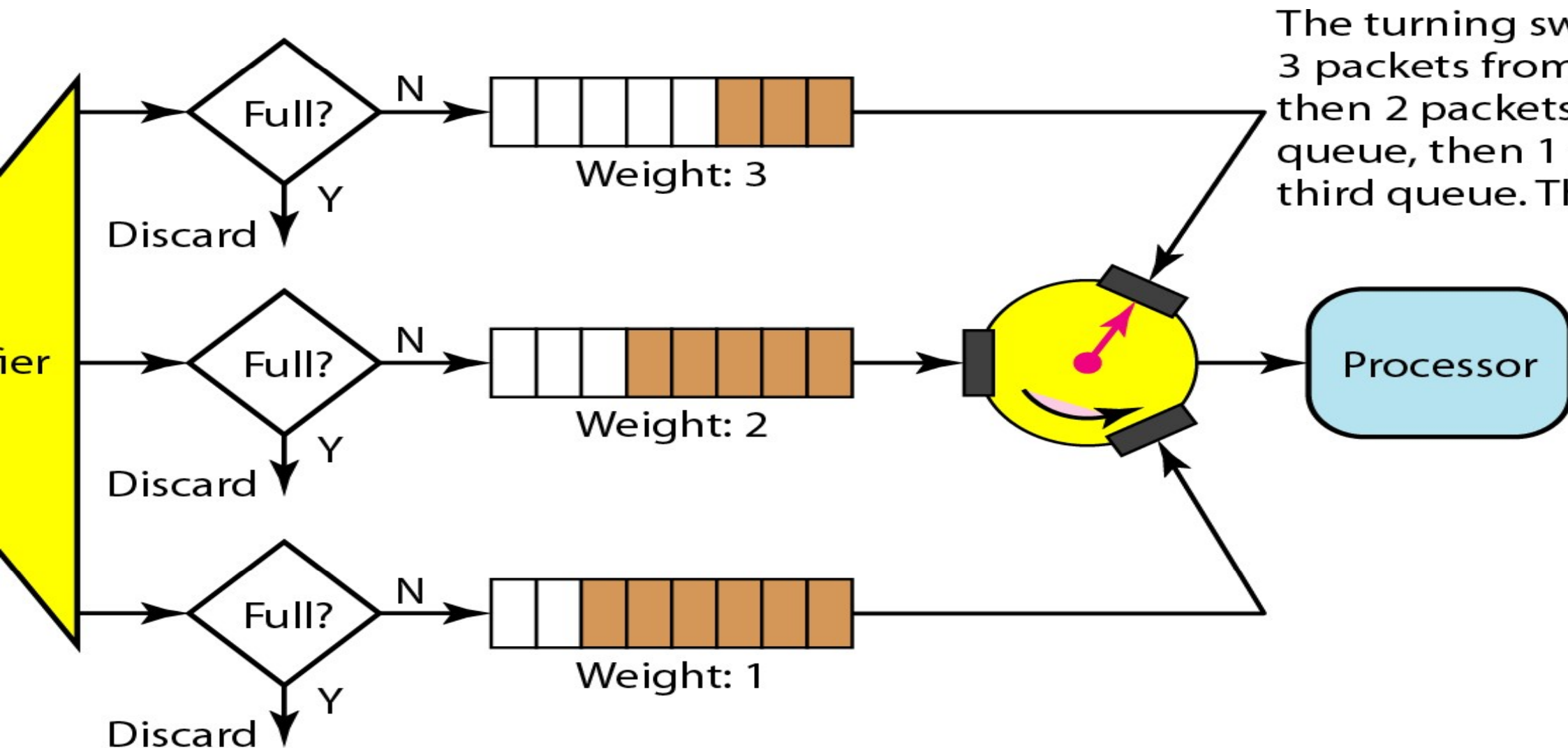
# 6 *FIFO queue*



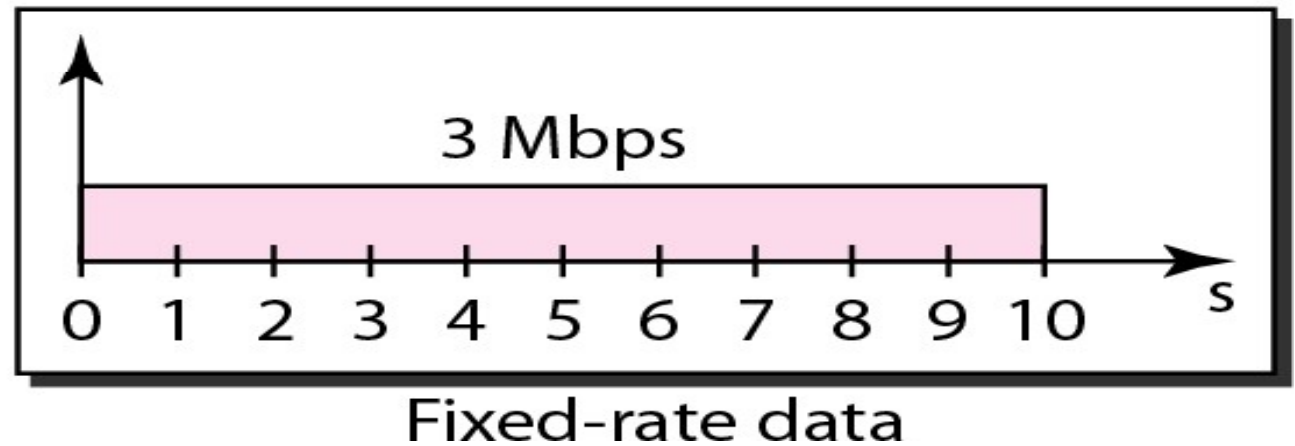
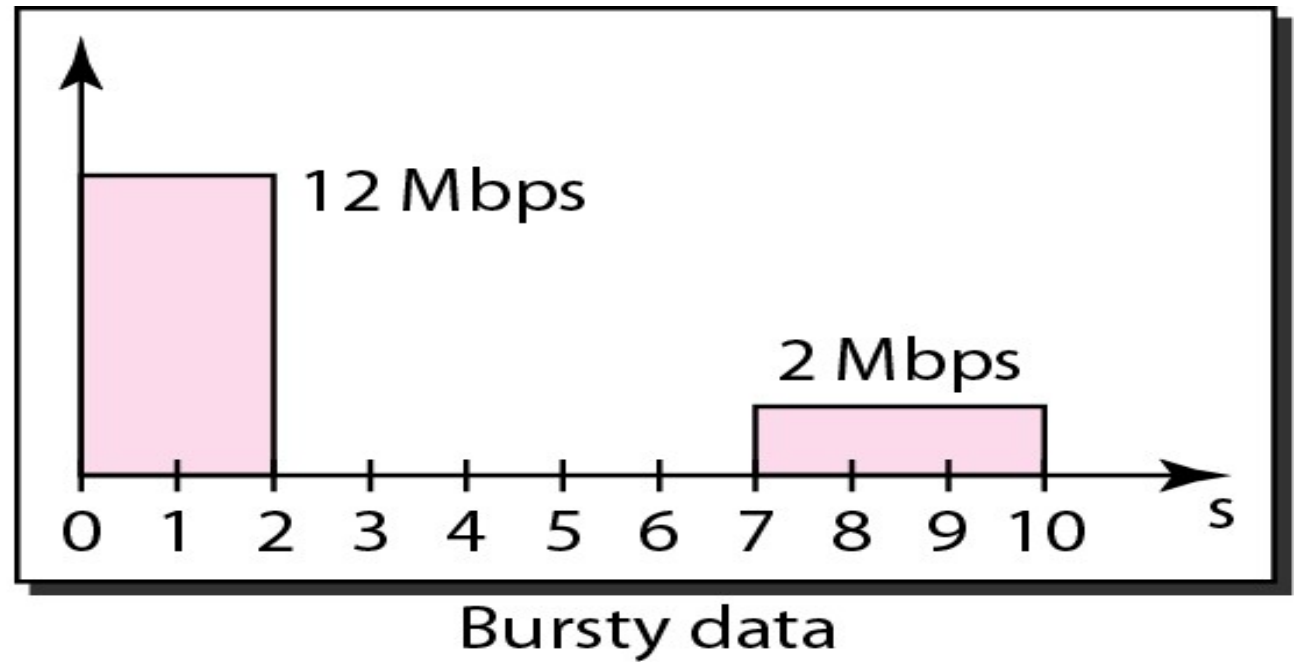
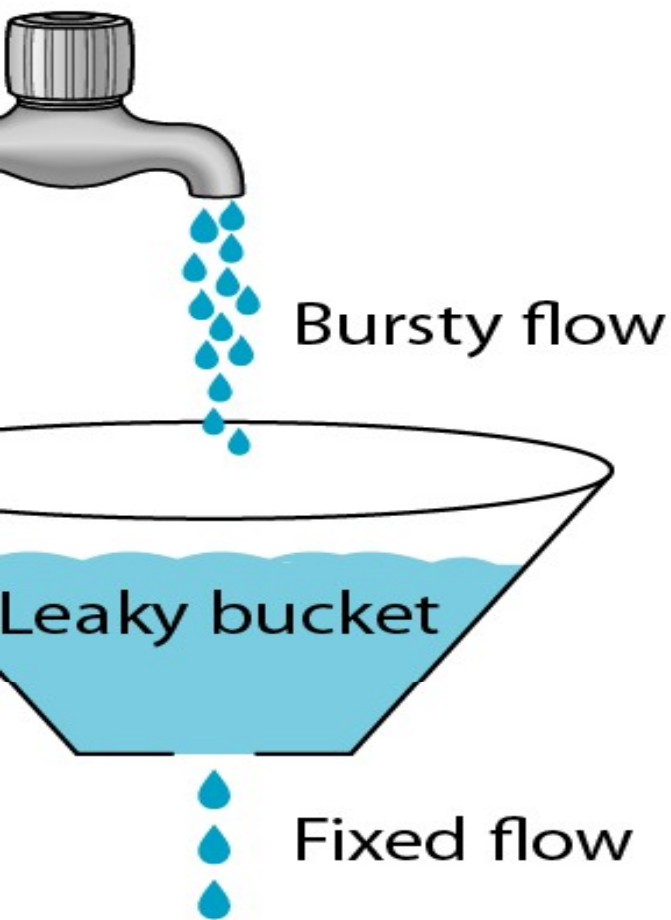
# 7 *Priority queuing*



# 8 *Weighted fair queuing*

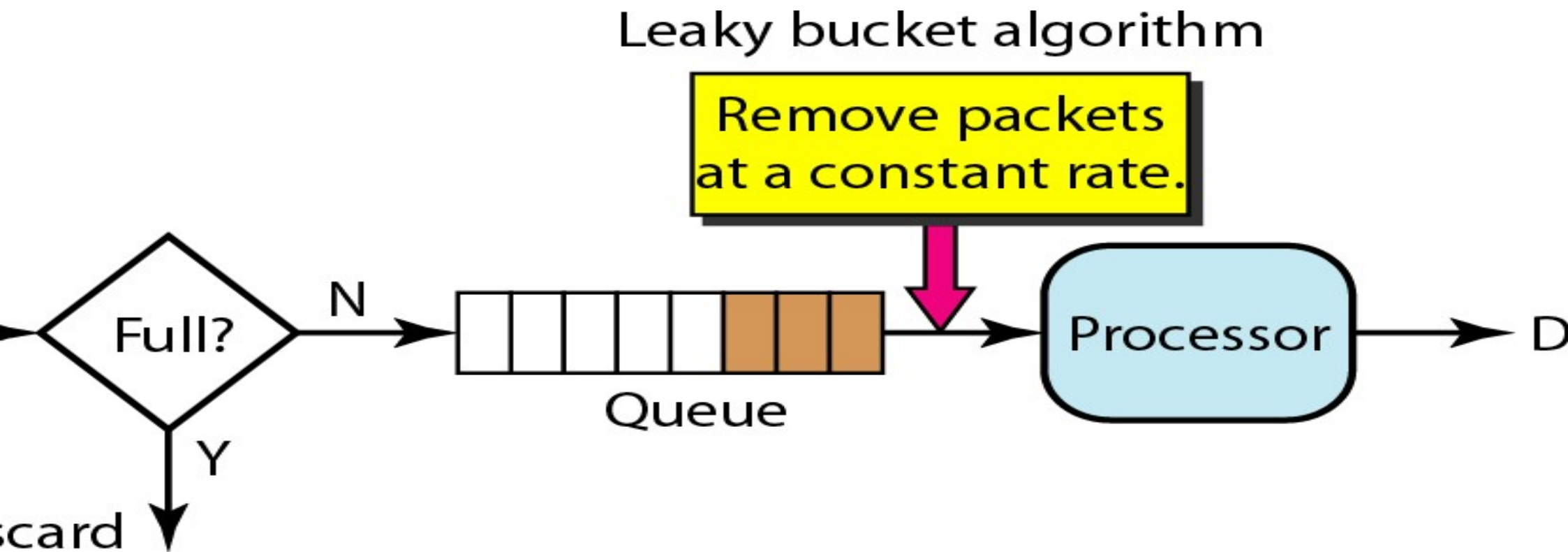


# 9 *Leaky bucket*





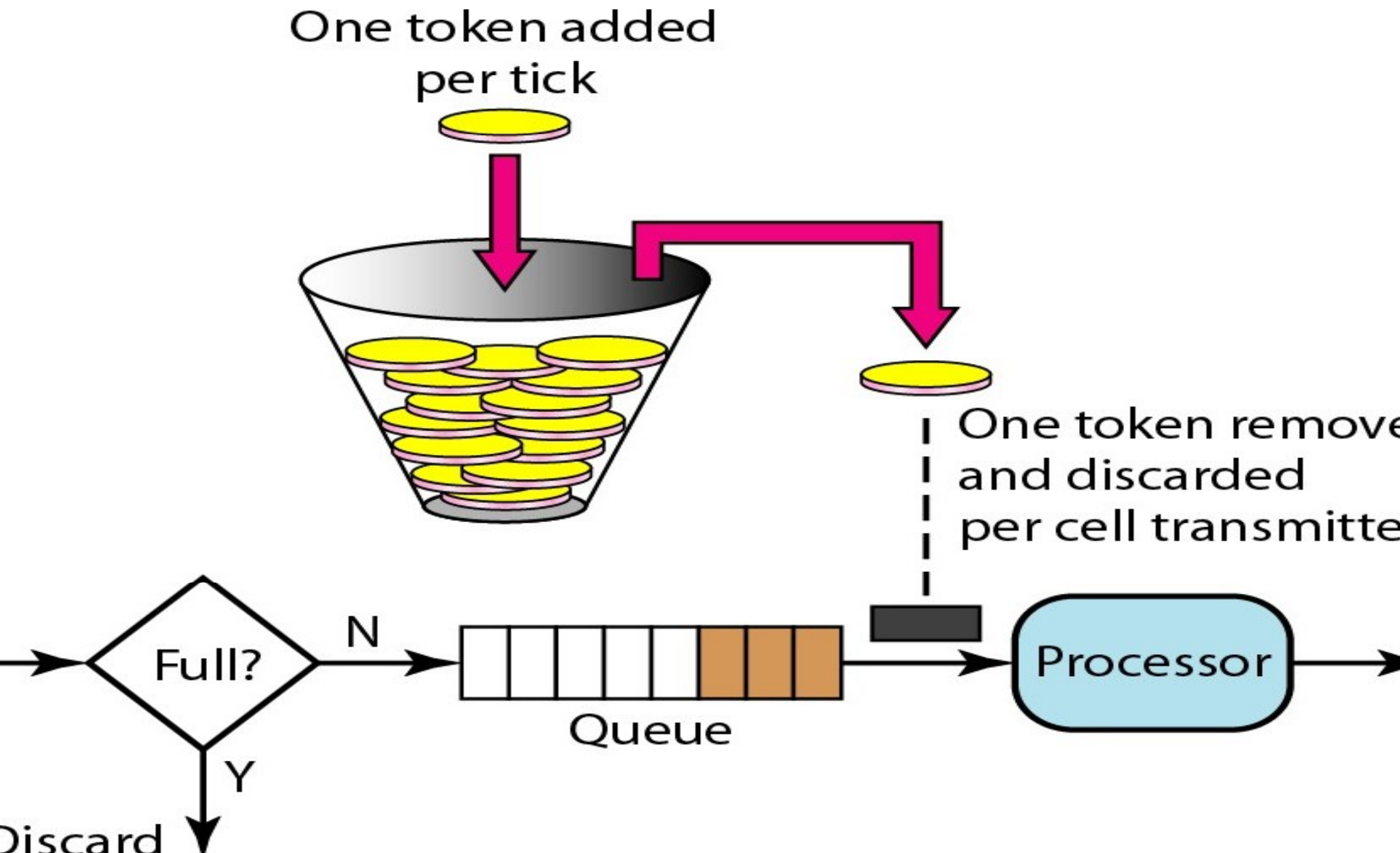
# 20 Leaky bucket implementation



**Leaky bucket algorithm shapes bursty traffic into fixed-rate traffic by averaging over a fixed rate. It may drop the packets if the bucket is full.**

**oken bucket allows bursty traffic  
regulated maximum rate.**

# 1 Token bucket



*Thank You*