

# Universidad de Costa Rica

Facultad de Ingeniería

Escuela de Ciencias de la Computación e Informática

Redes de comunicación de datos

Tarea 8

2025



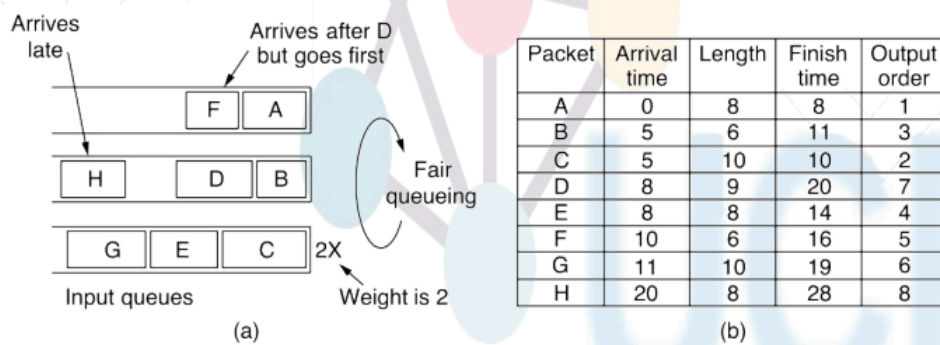
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# Queueing exercise

2024

- Consider the packet queues shown in Fig. 5-29
- What is the finish time and output order of the packets if the **middle** queue, instead of the bottom queue, has a weight of 2?
- Order packets with the same finish time alphabetically



Paquete	Finish Time	Orden
A	8	1
B	8	2
D	12.5	3
C	15	4
D	16	5
E	23	6
H	24	7
G	33	8

## Token bucket exercise

A computer on a 6-Mbps network is regulated by a token bucket. The token bucket is filled at a rate of 1 Mbps. It is initially filled to capacity with 8 megabits.

How long can the computer transmit at the full 6 Mbps?

Si la tasa de llenado es 1 Mb/s y el envío consume 6 Mb/s, el gasto neto de tokens es 5 Mb/s. Con 8 Mb en el depósito inicial, durará

$$8 / 5 = 1.6$$

Por tanto, puede transmitir a 6 Mb/s durante 1,6 segundos.