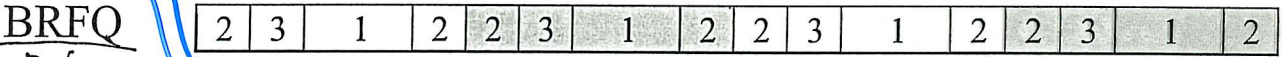
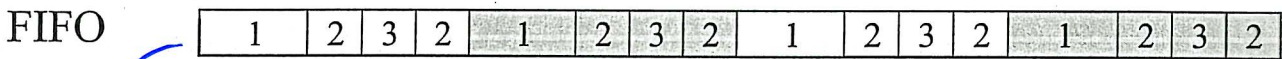
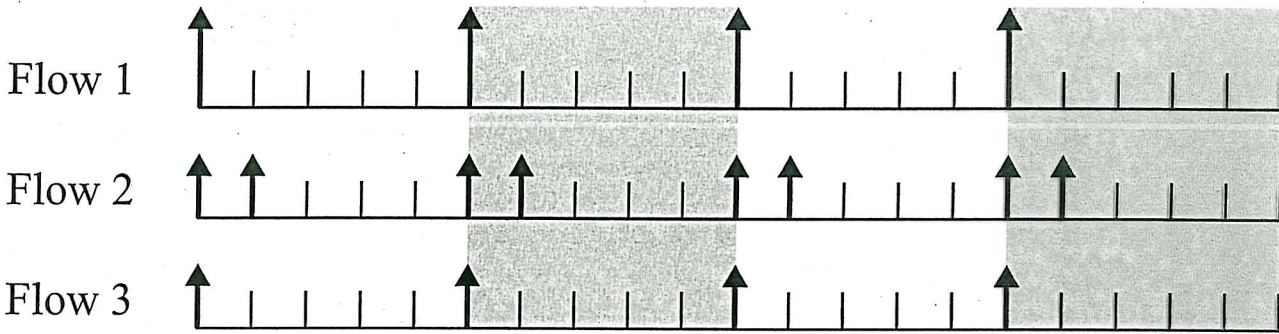


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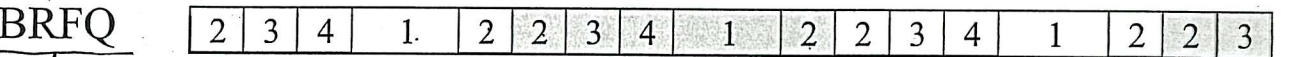
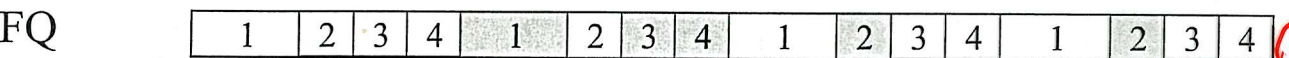
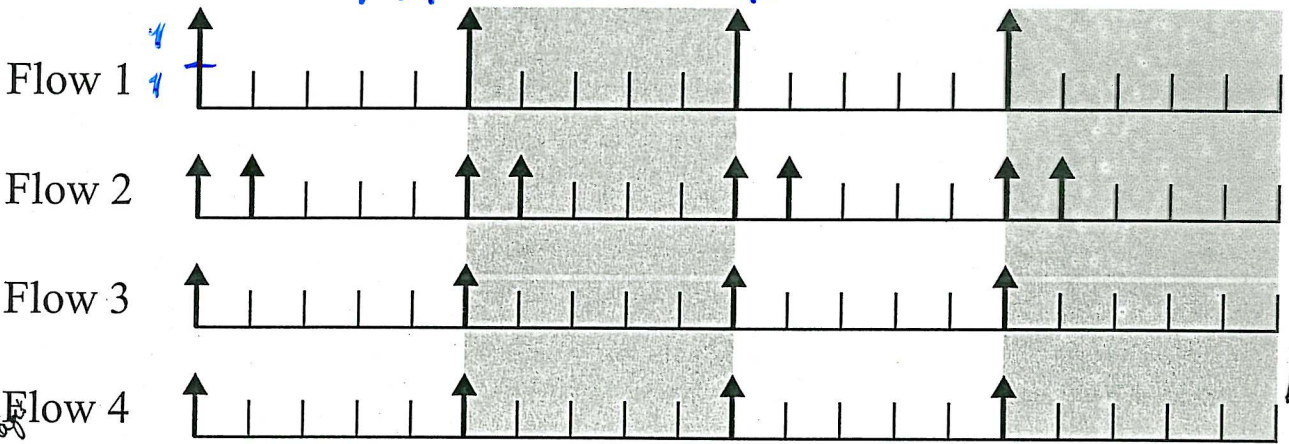
Comparison of FIFO and Fair Queueing



Preference given to the shorter packets

IF LOAD EQUALS CAPACITY
FIFO & FQ BEHAVE SIMILARLY.

(a) Load equals capacity



Flow 2
↓
disadvantage

additional load

$$\frac{8}{8} \frac{6}{8} \frac{3}{8} \frac{3}{4}$$

$$\frac{8}{8} \frac{4}{8} \frac{4}{4} \frac{4}{4}$$

(b) Load exceeds capacity

server busy sending which packet?

Total # of bits transmitted by each flow is fairer.

$$\left\{ \frac{6}{8} \frac{7}{8} \frac{4}{4} \frac{3}{4} \right\}$$

i.e. at the end of the observation period some packets will remain in the router buffer