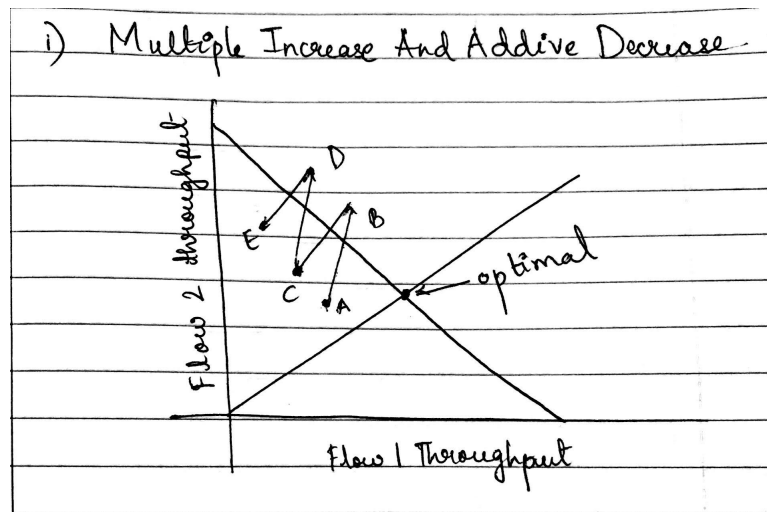# PartD - Wireshark

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1 Fairness

A congestion control mechanism is said to be fair if the average transmission rate of each connection is approximately R/K where R is the transmisson rate and K is the number of connection

## 1.1 Multiplicative Increase Additive Decrease

From the figure it can be observed that it is moving away from the optimal point. The path is as follows : A-B-C-D-E. And hence can never reach the optimal point and hence is not fair.

1.2 Multiplicative Increase Multiple Decrease
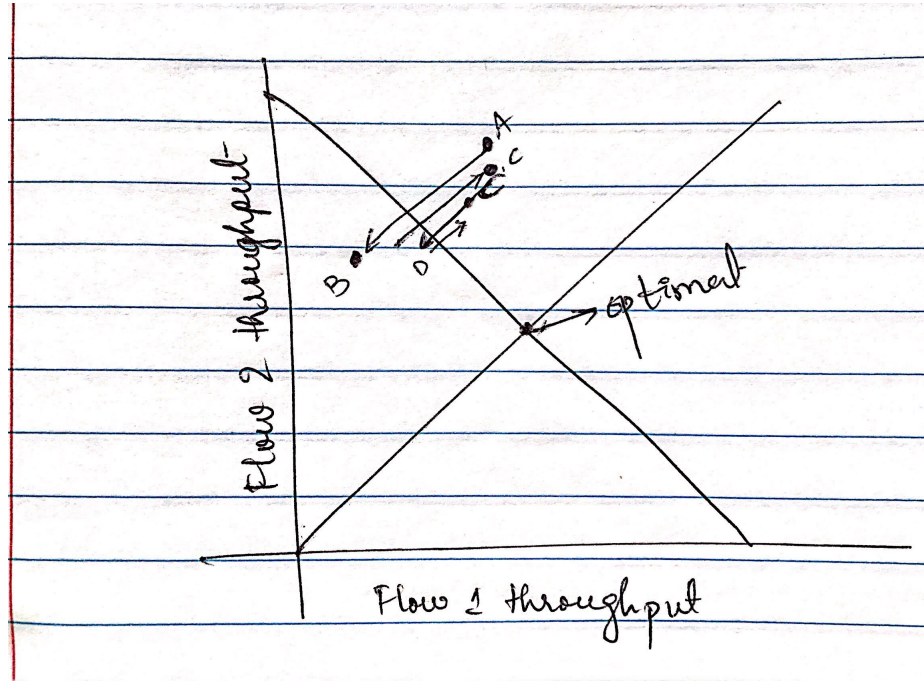
From the figure it can be observed that it keeps oscillating to and fro as it is multiplicative increase and multiplicative decrease and hence will not converge and is not fair.

1.3 Additive Increase Additive Decrease
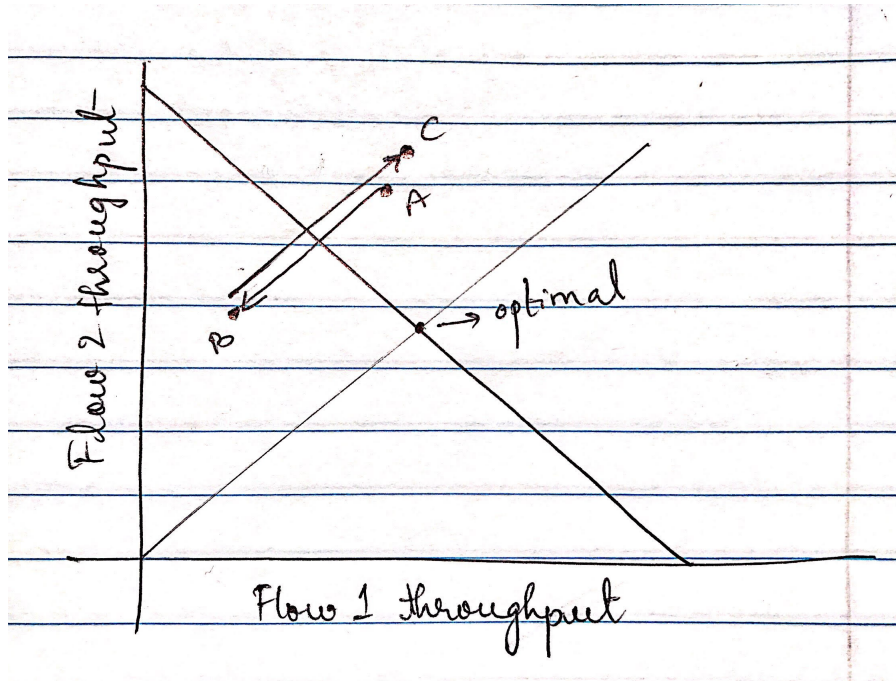
From the figure it can be observed that it will not converge and is not fair. It is not efficient as well.