# Homeowrk Set No. 10

ECE 642
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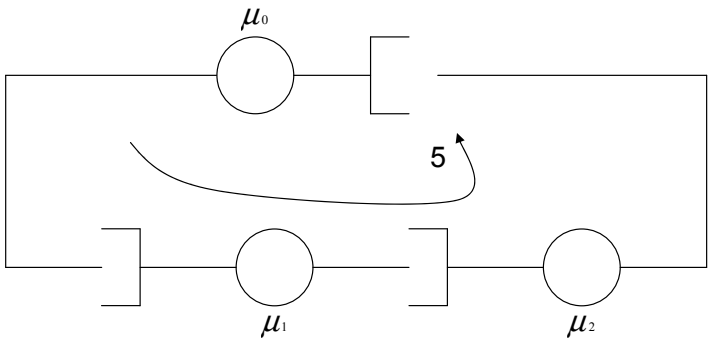
1. The problem with three queues as described in class (as you remember you need to determine $p_0$, $p_1$, $p_2$, $p_3$, $p_4$ and $p_5$ for queue 0 (top queue)). Assume $\mu_1 = \mu_2 = 2$, and $\mu_0 = 1$, use both Buzen's as well as Norton's algorithms.




2. Use mean value analysis to determine the throughput and the delay for the problem above (when the path has always traffic over it). Assume $\mu_1 = \mu_2 = \mu$ and $\mu_0 = \frac{1}{2}\mu$.