**Assignment #1**

Please use Mento-Carlo simulation to demonstrate the ***average transmission efficiency*** versus the number of STAs in a BSS, where

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**Tips:**

1. Please read the specification and find the time durations of SIFS, DIFS, contention time slots, and acknowledge message.
2. Please choose a reasonable time duration for the frame transmission.
3. Assume all the STAs always have data for transmission.
4. Given a fixed number of STAs, you should generate more than 1000 transmissions to measure the average transmission efficiency (Because of random backoff).
5. Please show the efficiency (y-axis) versus number of STAs (x-axis).
6. Please use PPT to show your results and discussions.