## CS4121 Assignment 6 Due: 10/17/17

(10 Points) Consider the following TCP session between hosts A and host B on a perfect channel: A has a file of size 2.5MSS to send to B. A desires to send segments of alternating sizes MSS and MSS/2 (sequence number = 0 for the first segment of size MSS). B also has a file of size 2.5MSS to send to A. B desires to send segments of alternating sizes MSS/2 and MSS (sequence number = 0 for the first segment of size MSS/2). A sends first.   
  
Note, A and B don’t have to fully fill up their “desired” segment size if there is no sufficient bytes to send, especially at the end of their conversation, where it is even possible for them to send a segment whose data size is equal to 0.

Draw all the segment exchanges until the Both A and B think they don’t have any more bytes to send and there is no byte to acknowledge. ***For each segment, clearly mark the sequence number, the ACK number, and the size of data it carries*.**

**Two special cases:**

* **If the data size is equal to 0 in a segment, the sequence number field is irrelevant. You may just mark N/A.**
* **Upon receiving a segment with the data size equal to 0, if the host still has more data to send, it sends the next segment out and re-uses the most-recently-used ACK number. If the host has no more data to send, it just keeps silence.**

