CS 6210: Perf. Eval. of Computer Systems; Aug. 2011, Prof. Krishna Sivalingam
Tutorial 5, Nov. 4, 2011, OPEN BOOK/NOTES; CLOSED NEIGHBORS. TA/instructor help can be requested.

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1. Consider a timesharing system with one CPU and three disks, A, B and F. Given that $V_A = 10, S_A = 14\ ms, V_B = 8, S_B = 12.5\ ms, V_F = 6, S_F = 20\ ms, S_{CPU} = 6\ ms, Z = 3\ s$, determine X, X_i, R, R_i, Q_i using any TWO of the following three methods:

   - Exact MVA for N = 3
   - Conv. Alg. for N = 4; Note that there is a delay center now.

2. Determine the balanced job bounds for the above system, for $N = 3$.