COMP 322: Fundamentals of Parallel Programming (Spring 2015)
Instructor: Vivek Sarkar
Worksheet 2: due at end of class today

Name: _____ Netid: _____

Honor Code Policy for Worksheets: You are free to discuss all aspects of in-class worksheets with your other classmates, the teaching assistants and the professor during the class. You can work in a group and write down the solution that you obtained as a group. If you work on the worksheet outside of class (e.g., due to an absence), then it must be entirely your individual effort, without discussion with any other students. If you use any material from external sources, you must provide proper attribution.

Reverse Engineering a Parallel Program from a Computation Graph (CG)

Write a parallel program that generates exactly the same ordering constraints as the computation graph shown below. The program should be written in pseudocode using finish and async annotations. The CG nodes should be clearly identified as statements in the program e.g., as method calls A(), B(), etc. Since the CG edges are not labeled as spawn, continue, or join, you can make whatever assumptions you choose about the edges when writing your program. The only requirement is that the ordering constraints in your program coincide with those in the graph --- adding transitive edges is okay.