Homework assignment

CMSC 15300

Due: April 14, 2004

1. Give an algorithm to classify a directed graph as either: a tree, a DAG, or a general graph (i.e., one with cycles).
   **Hint:** start with depth-first search.

2. Consider the following code sequence:
   ```
   a = 1;
   b = a+1;
   c = a+b;
   d = c+b;
   print (d+b);
   ```
   (a) Draw the interference graph for this code.
   (b) What is the minimum number of registers required for this graph?