Assigned: September 15, 2009 Due: September 22, 2009

At the beginning of class on the due date, submit your neatly presented solution with this page stapled to the front (70 pts).

Given the following C program,

```
Program M
1.
    begin M
      read i, j
2.
      sum = 0
3.
4.
      while i <= 10 do
5.
         call B
     endwhile
6.
7.
      print (i)
     call C
8.
9.
    end M
Procedure B
10. begin B
11.
       if sum > 10 then
12.
          halt.
13.
       endif
14.
       call C
15.
       i = i + 1
16. end B
Procedure C
17. begin C
18.
       if j >= 0 then
19.
          sum = sum + j
20.
          read i
21.
       endif
22. end C
```

- 1. Compute partial control dependences for nodes in M, B, and C.
- 2. Use the partial PDGs to construct the interprocedural dependence graph for M.
- 3. Compute the control dependences for those nodes whose control dependences were unknown in (1)