CS 245 — Assignment #8 Spring 2006

Due Date: Tuesday, July 18 at 5pm.

Use makeCover to produce a cover page for your assignment and hand in your assignment in the CS 245 assignment box. Assignments are to be done individually.

For each of the following triples (pre-condition, program, post-condition), prove that the triple is satisfied under partial correctness. Use natural deduction or transformational proof techniques to prove any implied conditions.

1. (8 points)

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(|x = x_0 \land y = y_0|)

x = x + y;

y = x - y;

x = x - y;

(|x = y_0 \land y = x_0|)
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2. (17 points)