Name				
Seating Section:	R	M	L	

Homework 17 CS 336

The important issue is the logic you used to arrive at your answer.

1. Prove that the program segment

$$y := 1$$

 $z := x+y$

is correct with respect to precondition "x = 0" and postcondition "z = 1".

2. Prove that the program segment

if
$$x < 0$$
 then $x := 0$

is correct with respect to precondition " true" and postcondition " $x \geq 0$ ".

3. Prove that the program segment

$$x := 0$$
 $z := x+y$
if $x < 0$ then
 $z := z+1$
else
 $z := 7$

is correct with respect to precondition "y = 3" and postcondition "z = 7".