

CS4182 Homework Exercises 5

1. Using the Assignment Rule determine if the following Hoare Triple is correct:
 $\{x > 10\} x = x - 7 \{x \geq 4\}$
2. Prove that the following Hoare Triple is correct using the Assignment Rule and the (Modified) Concatenation Rule:
 $\{x > 27\} x = x + 12; x = x + 12 \{x > 41\}$
3. Prove that the following Hoare Triple is correct using the Assignment Rule and the (Modified) Concatenation Rule:
 $\{x > 13\} x = x - 2; y = x + 5 \{x > 10 \wedge y > 15\}$