Name:_____ Name: _____

Name:_____ Name: _____

Loop Invariant

1. Loop invariant (write a statement that can be easily proven true or false, that references the purpose of the loop, and references variables that change each iteration):

2. Initialization (show that the loop invariant is true before the loop starts):

3. Maintenance (show that the loop invariant holds when executing any iteration):

4. Termination (show that the loop invariant holds once the loop ends):