

Name: _____

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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):