**Problem 4**

The four criteria are as follows:

1. P => I
2. {I and B} S {I}
3. (I and (not B)) => Q
4. The loop terminates

For this specific problem, the invariant that can be used here is that Power > 0 and this is true in the beginning. Then we will check to make that the power is greater than 0 after the loop has executed. Next, when i > n, or in variable terms B is false while I is true which should mean Q is true. The loop when the power is equal to x ^ n is the same as Q. Lastly we check here to make sure that the B, when false, will terminate the loop.