CSCI 400 – Programming Language Concepts – Spring 2019 HW 08 – Program Correctness (10 points)

This assignment is to be turned in through Blackboard.

1. (5 points) Compute the weakest precondition for the following code:

```
if x < y then x = x + 1 else x = x * 3 end \{x < 0\}
```

2. (5 points) Give a partial proof of correctness for the following code:

```
{n > 0}
count = 1
sum = 0
while count <= n do
    sum = sum + count
    count = count + 1
end
{sum = 1 + 2 + ... + n}</pre>
```