

CS4182 Homework Exercises 6

1. Prove that the following Hoare Triple is correct using the if-else rule.

$\{\}$

```
if(x>64)
{
    x=63;
}
else
{
    x=0;
}

 $\{x \leq 64\}$ 
```

2. Prove that the following Hoare Triple is correct using the if rule.

$\{\}$

```
if(x<0)
{
    x=10;
}

 $\{x \geq 0\}$ 
```