University of Nevada, Las Vegas Computer Science 477/677 Fall 2020

Assignment 4: Due Monday September 14, 2020

Name:_____

Write your answers into a pdf file and email it to the graduate assistent, Miss Chua, on Monday, September 14, before midnight.

Consider the code below:

```
int mystery(int n)
  {
    assert(n >= 0);
    int m = 0;
    int s = 0;
    while(m < n)
     {
       s = s + 2*m + 1;
       m = m + 1;
     }
    return s;
  }
```

1. What will the function do? That is, what will be the value of mystery(n) for any non-negative n?

2. What is the loop invariant?