Timed Test 3

This timed test is testing you on Module 3 material. Do not use material covered in Module 4. Only use what we have taught in this class. You do not need a specific filename or any specific comments. **Be sure your file does not have any syntax errors before submitting or you will receive a 0.**

**Important**: the only built in functions you may use in this timed test are print, len, and range.Using a built in function as a variable name will result in a 0 for the entire timed test. Using break will also result in a 0.

If you have any doubts on something is allowed or not, check the “Important” tab on the syllabus before you submit.

**Question:**

The goal of this timed test is to iterate through a list and perform specific actions. Your code should have the following:

* Write a function named **adding\_ones**, which takes a list of 0s and 1s**. Note: You can assume that your passed list would always have 0s and 1s as input. An example could be lst1 = [1, 0, 0, 1, 1, 1].**
* Within the body of the function, you would iterate over the list using **range()**. During iteration, if a list element is 0 then you would print **“Oops it is a missed bit”**. Otherwise, you would add 1 to the sum of 1s. For example, the sum for lst1 = [1, 0, 0, 1, 1, 1] would be 4 since there are four 1s.
* Your function should return the sum of 1s.
* Write a main function that doesn’t take in any parameters and doesn’t return anything. Within the body of main, invoke adding\_ones using the following list:

[1,1,1,0,1,0,0,1,1]

* Invoke main.

**Rubric:**

Specific Function – 42

* Header: 4 pts
* Correct name: 2 pts
* One parameter to represent list: 2 pts
* For loop: 12 pts
* – 4 pts if they iterated element wise (i.e. did not use the range() function)
* – 5 pts if they did not use the len() of the list
* – 3 pts if they did not use the list parameter passed into the function
* Deduct all points if they use a while loop
* If Condition: 12 pts
* Correct conditional: 6 pts
* – 3 pts if they used “if” but the condition was incorrect
* Correct operation in if condition: 6 pts
* Else Condition: 12 pts
* Correct conditional: 6 pts
* – 2 pts if they used another if or elif instead of else
* - 2 pts for not creating a variable for the sum of 1s
* - 2 pts for hardcoding one and not fetch it from the list.
* Correct operation in else condition: 6 pts
* Return: 2 pts
* Correct placement (i.e. outside for loop but inside function): 1 pt
* Returning correct variable: 1 pt

Main: 8 pts

* Defining the test list: 3 pts
* Calling the other function properly (passing a list, setting equal to a variable, printing the variable): 3 pts
* Invoking main: 2 pts