*Buffer Overflow Part II*

**Buffer Overflow in Python**

Now carry out a comparison of your work in C, with one in Python, following these instructions.

You will be using the file Overflow.py:

buffer=[**None**]\*10

**for** i **in** range (0,11):

buffer[i]=7

print(buffer)

Now,

* Run the code using python overflow.py (or use the **rocket icon**)
* What is the result?

**Answer:**

**The result is an error message that says**

**line 5, in buffer[i]=7**

**IndexError: list assignment index out of range**

* Read about Pylint at <http://pylint.pycqa.org/en/latest/tutorial.html>
* Install pylint using the following command:
* pip3 install pylint
* Run pylint on your Overflow.py file and evaluate the output:
* pylint Overflow.py
* What is the result? Does this tell you how to fix the error above?

**Answer:**

**Overflow.py:1:16: C0303: Trailing whitespace (trailing-whitespace)**

**Overflow.py:3:22: C0303: Trailing whitespace (trailing-whitespace)**

**Overflow.py:5:15: C0303: Trailing whitespace (trailing-whitespace)**

**Overflow.py:7:0: C0304: Final newline missing (missing-final-newline)**

**Overflow.py:1:0: C0114: Missing module docstring (missing-module-docstring)**

**Overflow.py:1:0: C0103: Module name "Overflow" doesn't conform to snake\_case naming style (invalid-name)**

**After renaming the file to overflow.py rather than Overflow.py and using Black document formatter and adding the docstring at the top of the document, no error shows up.**

**Pylint did not show errors regarding buffer overflow but rather it only showed errors regarding formatting and code organization and cleanliness.**

"""This program shows buffer overflow in python"""

buffer = [None] \* 10

for i in range(0, 11):

    buffer[i] = 7

print(buffer)