1) Course Goals 1 Fun & rewarding course 1 Programming skills A) OOP (using C++) & structured programming using C B) basic algorithms C) data structures D) Scripting (using Python) for automation & verification tasks E) software management techniques 3 Obtain job referrals, interviews

2) Course Expectations

· stay COVID-free & safe

· follow USC academic integrity rules

· attend lecture & discussion

· take notes during lecture/ discussion
· participate in class & discussion via questions & answers

· aim to top the class

· review posted material in advance to the corresponding lecture

· do mandatory assignments · stay quiet / respectful of others during lectures

check BB regularly for class updates. Keep course material confidential

3) The variable assignment in Python is based on dynamic memory allocation. When y is assigned x (y=x), a new section of memory is allocated of the size of the value of x and y points to the location that value is stored.

8) The following code will be executed forever. My compiler gave me the following warning when attempted to run the code: "Result of comparison of constant 300with expression of type 'unsigned char' is always true." An unsigned char can only represent the numbers 0-255. Therefore this code will continue to repeat forever because when i= 255, it will cause an overflow error and give i=0. It has loop will never terminate because i can never be greater than 255, much less 300 (2×150).