

CS 32, Spring 2013
Hw7: 50 total points

Print this form, staple loose pages together, and write your answers on it.

Accepted: files by `turnin` before your lab section on Wednesday, May 29,
plus this paper at the beginning of your lab section on May 29.
No email submission allowed.

Name (1 pt): _____

Umail (1 pt): _____@umail.ucsb.edu

Lab Section (1 pt) Circle one: 1:00 2:00 3:00

For programming-related tasks, either place a check mark on the "done" line if you (and your partner) successfully did it, or write a brief explanation.

Hint: Read the textbook before answering the theory questions

1. (7 pts.) What is a function's signature? Say what is and what is not included in a signature.

2. (10 pts.) Discuss the pros and cons of using protected instead of private variables.

3. (15 pts.) Fix the error you found during Lab07 on simple.cpp (Step 2), and submit your revised simple.cpp file. Attention: Don't use the public or protected qualifier for the ssn variable. Correct the program using a function to have access to this variable (see p.824 in the Savitch textbook).

#3 done: _____

4. (15 pts.) Get inheritance.cpp (see Lab07 instructions). You should add code to the main function that accomplishes all of the operations of part a. Add your name(s) in a comment at the top, and submit your code for full credit.

a. write down the output for the following cases:

i. A calls set from the base class with arguments 3 and 4;
then calls print

ii. A calls printk()

iii. B calls set from the base class with arguments 3 and 4;
then calls print

iv. B calls setk() and printk()

v. B calls setm() and printm()

c. Submit your modified inheritance.cpp file (at the end of hw7)

#4 done: _____
(check, or say why not)

End of Hw7

Turn-in instructions:

A. Be sure that both files (inheritance.cpp and simple.cpp) are in your ~/cs32/hw7/ directory. Then type the following to turn both in at once:

```
turnin hw7@cs32 inheritance.cpp simple.cpp
```

If you worked with a partner, then just turn in one copy for both of you, and enter your partner's name on the following line:

B. Each student must turn in this completed paper at your next lab.