## CS21 PRACTICE QUIZ 1, Swarthmore College Spring 2008

1. Define the term algorithm.
2. For each of the following expressions, show the value that will be returned by the Python interpreter.
(a) $10 \% 4$
(b) $6 / 4$
(c) abs $(4-6)^{* *} 3$
(d) $(5.0 / 2.0)+3.5$
(e) $10-3^{*} 3$
3. Write a for loop that will print the word 'hello' five times (once per line).
4. Trace through the following program by creating a table that shows how the values of answer and i change. Also show what the final output will be.
```
def mystery():
    answer = 1
    for i in range(5,2,-1):
        answer = answer * i
    print "final answer is", answer
```

5. Write a function that will create a table showing inches to centimeter conversions. Your table should go from 1 to 12 inches. One inch is equivalent to 2.54 centimeters. You do NOT need to format the data into columns.
