

CS21 PRACTICE QUIZ 1

1. Define the term *algorithm*.

2. For each of the following expressions, show the value that will be returned by the Python interpreter and list the type of the resulting value.

	VALUE	TYPE
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<code>3 / 2</code>		
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<code>3.0 / 2</code>		
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<code>(10 % 4) + (6 / 4)</code>		
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<code>abs(4 - (20 / 3)) ** 3</code>		
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<code>(5.0 / 2.0) + 3.5</code>		
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<code>"me" * 3 + "you" * 2</code>		
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3. Write a **for loop** that will print the word 'hello' five times (once per line).

4. Show the output that will be produced when the following program is executed in the Python interpreter.

```
def main():
    answer = 1
    for i in range(5,2,-1):
        answer = answer * i
        print "current answer is", answer
    print "final answer is", answer

main()
```

5. Write a **program** that will convert gallons to liters. One gallon is equivalent to 3.785 liters. Your program should prompt the user for a value in gallons and print the equivalent value in liters.