CS1301 Quiz 2, 09/17/2014

Write down your name, class and section #, then answer the following questions:

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1. What is floor(2.2)? 2.0

double/float

2. What is ceil(2.2)? 3.0

3. What is ceil(-2.1)? -2.0

precision: double is twice as precise as float

4. A desirable property of random numbers is to have a \_\_\_uniform\_\_\_\_\_ distribution.

5. Math.random() returns random numbers between 0 and 1. Write out the transformation that would map the random number from the [0, 1] range onto the [-10, 10] range.

double r = Math.random();

double scaled = \_\_\_r\*20 - 10\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Syntax errors violate language specification while logic/semantic errors cause program to produce incorrect results.