Quiz #7
Wednesday, May 31ˢᵗ

1. [5 pts] Circle one: The last three problems in the homework assignment were supposed to be written in:

    a. C   b. Assembly

2. [5 pts] What will be the initial value of x in the declaration below?

    `float x = 1/5 ;`   Answer: `0.0`

3. [5 pts] Circle the C declaration statement that is syntactically correct:

    a. `float a[] = [1.0, 2.0, 3.0, 4.0] ;`

    b. `float a[] = {1.0, 2.0, 3.0, 4.0} ;`

4. [5 pts] True/False: The C statement, `x = n!;` assigns the value of N factorial to X:

    True: _____   False: _____

5. [8 pts] Assume that function foo requires two parameters: The first is an array of floats and the second is an integer count of the number of items in the array. Circle each function call that is syntactically incorrect.

    a. `foo([1.0, 2.0, 3.0], 3) ;`

    b. `foo({1.0, 2.0, 3.0}, 3) ;`

    c. `foo(coef[], 8) ;   // "coef" is an array of floats`

    d. `foo(coef, 8) ;    // "coef" is an array of floats`

6. [20 pts] Circle those instructions that would cause an error during assembly:

    a. `VLDR S0,[R1,R2,LSL 2]`   e. `VLDR S0,[S1]`

    b. `VLDR S0,[R0,4]`   f. `VLDR S0,=3.14159`

    c. `VLDR S0,[R1],4`   g. `VADD.F32 S0,S1,4`

    d. `VLDR S0,[R1]`   h. `CMP S0,S1`

    i. `VMUL.F32 S0,S0,pi  // where "pi" is defined by a .float`

    j. `VADD.F32GE S0,S0,S1// where this is inside an IT GE block`