CPE390 Floating Point

Email if you have any questions!

☐ I pledge my honor that I have abided by the Stevens Honor System

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Time Remaining:

-1:57 Submit Quiz

1. Exact/Inexact (1 points)

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Which of the following numbers are exactly representable in floating point?

1.0 exact
11.5 exact
17.0 exact
0.1 inexact
0.25 inexact
0.125 inexact
0.3 inexact
3.75 exact

2. Which of the following are true? (1 points)

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```
double x = .0019, y = 2.5, z = 531.86;
double a = 1.0, b = 4.5, c = 11.3;
```

x + y == y + x true
x + y + z == z + y + x false
x + y + z == x + (y + z) false
a + b + y == y + b + a true
x + y + z == x + y + z true

3. Rules of Inf and NaN (1 points)

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```
double x = 1.0 / 0.0;  // x =
```
inf

-1.0 / 0.0 = inf
0.0 / 0.0 = nan
50.0 / 100.0 = nan
sqrt(1.0 / 0.0) = nan
sqrt(-1.0) = nan
2.0 / 0. = nan
cos(1.0 / 0.0) = nan
5.0 / x nan
sin(3.0 / 0.0 * 0.0) = nan
0.0 / x // nan

4. true or false? (1 points)

Click to report a problem

```
1.0 / 0.0 == -1.0 / 0.0 ? true
2.0 / 0.0 == 1.0 / 0.0 + 1 ? true
0.0 / 0.0 == sqrt(-1.0) ? true
sqrt(-1.0) != sqrt(-1.0) ? false
```

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