

**Software Design I (CS 120)**  
**Quiz 05: Monday, 19 March 2018**

NAME \_\_\_\_\_

- (1) (5 pts.) For each of the following loops, write out how many times it will loop. (This is the same as the number of lines each will print out.)

```
int x = 0;
while ( x < 8 )
{
    System.out.println( x + 1 );
    x++;
}
```

(a) **Answer:** \_\_\_\_\_

```
int y = 1;
while ( y < 8 )
{
    System.out.println( y );
    y = y + 2;
}
```

(b) **Answer:** \_\_\_\_\_

```
int w = 1;
while ( w < 20 )
{
    System.out.println( w );
    w = w * 2;
}
```

(c) **Answer:** \_\_\_\_\_

```
int v = 0;
while ( v < 10 )
{
    System.out.println( v );
    v = v + 1 / 2;
}
```

(d) **Answer:** \_\_\_\_\_

```
int z = 5;
while ( z < 5 )
{
    System.out.println( z );
    z = z * 2;
}
```

(e) **Answer:** \_\_\_\_\_

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(2) (5 pts.) Write out the exact output of the following code.

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```
for ( int i = 1; i <= 6; i++ )
{
    System.out.print( i + ": " );
    if ( i == 3 || i == 6 )
    {
        System.out.println( "OK" );
    }
    else if ( i % 2 == 1 )
    {
        System.out.println( "THIS" );
    }
    else
    {
        System.out.println( "THAT" );
    }
}
```

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