

## Bitwise Operations Test

<p>a = ?</p> <pre>int orig = 0x9090; int insert = 0x000F; int a = orig   (insert &lt;&lt; 4);</pre>	<p>a = ?</p> <pre>int orig = 0xB0B0; int insert = 0x0008; int a = orig ^ (insert &lt;&lt; 4);</pre>
<p>AND = ?</p> <pre>int orig = 0xC0C0; int insert = 0x0008; int a = orig   (insert &lt;&lt; 4); int b = orig   (insert &lt;&lt; 8); int AND = a   b;</pre>	<p>XOR = ?</p> <pre>int orig = 0xD0D0; int insert = 0x0009; int a = orig   (insert &lt;&lt; 8); int b = orig   (insert &lt;&lt; 4); int XOR = a ^ b;</pre>
<p>result = ?</p> <pre>long value1 = 0x11009900; long value2 = 0x10019009; int result = (value1 &lt;&lt; 4) ^ (value2 &gt;&gt; 12);</pre>	<p>result = ?</p> <pre>long value1 = 0x8008A00A; long value2 = 0x8080A0A0; int result = (value1 &lt;&lt; 12) ^ (value2 &gt;&gt; 4);</pre>
<p>result = ?</p> <pre>long value1 = 740; long value2 = 354; int result = (value1 &lt;&lt; 12) ^ (value2 &gt;&gt; 8);</pre>	<p>result = ?</p> <pre>long value1 = 361; long value2 = 210; int result = (value1 &lt;&lt; 4)   (value2 &gt;&gt; 12);</pre>
<p>cupcake = ?</p> <pre>int i = 0x1010; int cupcake = i &amp; (1 &lt;&lt; 12);</pre>	<p>a = ?</p> <pre>long testValue = 0x30031001; int a = 0; if (testValue &amp; (1 &lt;&lt; 4)) {     a = 1; } else {     a = 2; }</pre>

a = ?

```
long testValue = 0xF0F0B0B0;
int a = 0;
if (testValue ^ testValue | (1 << 8))
{
    a = 1;
}
else
{
    a = 2;
}
```

a = ?, result = ?

```
long testValue = 0x10101010;
int a = 0;
if ((result = testValue & testValue | testValue
^ (1 << 8)))
{
    a = 1;
}
else
{
    a = 2;
}
```