

## Bitwise Operations Test - Answers

<p>a = ?</p> <pre>int orig = 0xEE91; int insert = 0x0074; int a = orig ^ (insert &lt;&lt; 15); ----- a = 0x3AEE91</pre>	<p>a = ?</p> <pre>int orig = 0x8C6D; int insert = 0x0012; int a = orig ^ (insert &lt;&lt; 10); ----- a = 0xC46D</pre>
<p>XOR = ?</p> <pre>int orig = 0x568B; int insert = 0x0068; int a = orig   (insert &lt;&lt; 13) int b = orig   (insert &lt;&lt; 14) int XOR = a   b;</pre>	<p>XOR = ?</p> <pre>int orig = 0xCADF; int insert = 0x0067; int a = orig   (insert &lt;&lt; 9) int b = orig   (insert &lt;&lt; 10) int XOR = a ^ b;</pre>
<p>result = ?</p> <pre>long value1 = 0x4C9F91CC; long value2 = 0x76358276; int result = (value1 &lt;&lt; 15) ^ (value2 &gt;&gt; 9);</pre>	<p>result = ?</p> <pre>long value1 = 0x97F8BDF7; long value2 = 0x1F0517A0; int result = (value1 &lt;&lt; 5) ^ (value2 &gt;&gt; 9);</pre>
<p>result = ?</p> <pre>long value1 = 7232; long value2 = 12613; int result = (value1 &lt;&lt; 9) ^ (value2 &gt;&gt; 6);</pre>	<p>result = ?</p> <pre>long value1 = 6032; long value2 = 13079; int result = (value1 &lt;&lt; 7) ^ (value2 &gt;&gt; 15);</pre>
<p>cupcake = ?</p> <pre>int i = 0x8D3C; int cupcake = i &amp; (1 &lt;&lt; 1);</pre>	<p>a = ?</p> <pre>long testValue = 0xE0009060; int a = 0; if (testValue &amp; (1 &lt;&lt; 7)) {     a = 1; } else {     a = 2; }</pre>

a = ?

```
long testValue = 0x5008200A;  
int a = 0;  
if (testValue & testValue ^ (1 << 14))  
{  
    a = 1;  
}  
else  
{  
    a = 2;  
}
```

a = ?, result = ?

```
long testValue = 0x72004A00;  
int a = 0;  
if ((result = testValue ^ testValue & testValue  
    | (1 << 3)))  
{  
    a = 1;  
}  
else  
{  
    a = 2;  
}
```