

## Bitwise Operations Test

<p>a = ?</p> <pre>int orig = 0x56D5; int insert = 0x0032; int a = orig &amp; (insert &lt;&lt; 9);</pre>	<p>a = ?</p> <pre>int orig = 0xD8C3; int insert = 0x00DF; int a = orig ^ (insert &lt;&lt; 19);</pre>
<p>OR = ?</p> <pre>int orig = 0x0EFC; int insert = 0x009B; int a = orig   (insert &lt;&lt; 3); int b = orig   (insert &lt;&lt; 10); int OR = a   b;</pre>	<p>OR = ?</p> <pre>int orig = 0x8893; int insert = 0x0032; int a = orig   (insert &lt;&lt; 27); int b = orig   (insert &lt;&lt; 9); int OR = a   b;</pre>
<p>result = ?</p> <pre>long value1 = 0xDC67438E; long value2 = 0xE39264EC; int result = (value1 &lt;&lt; 7) ^ (value2 &gt;&gt; 29);</pre>	<p>result = ?</p> <pre>long value1 = 0xB7631B97; long value2 = 0xE7705AD9; int result = (value1 &lt;&lt; 5) ^ (value2 &gt;&gt; 2);</pre>
<p>result = ?</p> <pre>long value1 = 14184; long value2 = 12760; int result = (value1 &lt;&lt; 5) &amp; (value2 &gt;&gt; 7);</pre>	<p>result = ?</p> <pre>long value1 = 15774; long value2 = 8552; int result = (value1 &lt;&lt; 23)   (value2 &gt;&gt; 9);</pre>
<p>right = ?</p> <pre>int i = 0xDCCD; int right = i &amp; (1 &lt;&lt; 10);</pre>	<p>a = ?</p> <pre>long testValue = 0xA200C900; int a = 0; if (testValue &amp; (1 &lt;&lt; 18)) {     a = 1; } else {     a = 2; }</pre>

a = ?

```
long testValue = 0xE0009000;  
int a = 0;  
if (testValue ^ testValue | (1 << 30))  
{  
    a = 1;  
}  
else  
{  
    a = 2;  
}
```

a = ?, result = ?

```
long testValue = 0x309000C0;  
int a = 0;  
if ((result = testValue | testValue & testValue  
    ^ (1 << 21)))  
{  
    a = 1;  
}  
else  
{  
    a = 2;  
}
```