

Bitwise Operations Test - Answers

<p>a = ?</p> <pre>int orig = 0xA0A0; int insert = 0x000B; int a = orig ^ (insert << 4); ----- a = 0xA010</pre>	<p>a = ?</p> <pre>int orig = 0x7070; int insert = 0x0005; int a = orig ^ (insert << 4); ----- a = 0x7020</pre>
<p>OR = ?</p> <pre>int orig = 0x7070; int insert = 0x000D; int a = orig (insert << 4); int b = orig (insert << 12); int OR = a & b;</pre>	<p>AND = ?</p> <pre>int orig = 0x5050; int insert = 0x000B; int a = orig (insert << 4); int b = orig (insert << 12); int AND = a ^ b;</pre>
<p>result = ?</p> <pre>long value1 = 0x9900DD00; long value2 = 0x9009D00D; int result = (value1 << 12) ^ (value2 >> 8);</pre>	<p>result = ?</p> <pre>long value1 = 0x10103030; long value2 = 0x10013003; int result = (value1 << 8) ^ (value2 >> 4);</pre>
<p>result = ?</p> <pre>long value1 = 610; long value2 = 819; int result = (value1 << 12) ^ (value2 >> 4);</pre>	<p>result = ?</p> <pre>long value1 = 738; long value2 = 998; int result = (value1 << 12) ^ (value2 >> 4);</pre>
<p>cupcake = ?</p> <pre>int i = 0x4040; int cupcake = i ^ (1 << 8);</pre>	<p>a = ?</p> <pre>long testValue = 0x4004D00D; int a = 0; if (testValue & (1 << 12)) { a = 1; } else { a = 2; }</pre>

a = ?

```
long testValue = 0xAA002200;  
int a = 0;  
if (testValue & testValue ^ (1 << 12))  
{  
    a = 1;  
}  
else  
{  
    a = 2;  
}
```

a = ?, result = ?

```
long testValue = 0x33002200;  
int a = 0;  
if ((result = testValue | testValue ^ testValue  
& (1 << 12)))  
{  
    a = 1;  
}  
else  
{  
    a = 2;  
}
```