Bitwise Operations Test - Answers

a = ?
 	
int orig = 0x56D5;
int insert = 0x0032;
int a = orig & (insert << 9);
--------- 	
a = 0x4400
	a = ?
	
	int orig = 0xD8C3;
	int insert = 0x00DF;
	int a = orig ^ (insert << 19);
	--------- 	
	a = 0x6F8D8C3

OR = ?
 	
int orig = 0x0EFC;
int insert = 0x009B;
int a = orig | (insert << 3)
int b = orig | (insert << 10)
int OR = a | b;
--------- 	
OR = 0x26EFC
	OR = ?
	
	int orig = 0x8893;
	int insert = 0x0032;
	int a = orig | (insert << 27)
	int b = orig | (insert << 9)
	int OR = a | b;
	--------- 	
	OR = 0x9000EC93

result = ?
 	
long value1 = 0xDC67438E;
long value2 = 0xE39264EC;
int result = (value1 << 7) ^ (value2 >> 29);
--------- 	
result = 0x33A1C707
	result = ?
	
	long value1 = 0xB7631B97;
	long value2 = 0xE7705AD9;
	int result = (value1 << 5) & (value2 >> 2);
	--------- 	
	result = 0x284012A0

result = ?
 	
long value1 = 14184;
long value2 = 12760;
int result = (value1 << 5) & (value2 >> 7);
--------- 	
result = 0x0
	result = ?
	
	long value1 = 15774;
	long value2 = 8552;
	int result = (value1 << 23) | (value2 >> 9);
	--------- 	
	result = 0xCF000010

right = ?
 	
int i = 0xDCCD;
int right = i & (1 << 10);
--------- 	
right = 0x400
	a = ?
	
	long testValue = 0xA200C900;
	int a = 0;
	if (testValue & (1 << 18))
	{
	a = 1;
	}
	else
	{
	a = 2;
	}
	--------- 	
	a = 2

```
a = ?

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

```
a = ?, result = ?

long testValue = 0x309000C0;
int a = 0;
if ((result = testValue | testValue & testValue
^ (1 << 21)))
{
a = 1;
}
else
{
a = 2;
}
---------
a = 1, result = 0x30B000C0
```