**Math314**

**Binary Multiplication of integers**

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<script>  
 function xorMultiply(a,b) {  
 let result = 0;  
 while (b !== 0){  
 ***console***.log(b.toString(2));  
 ***console***.log(a.toString(2));  
 result ^=a\*(b&1);  
 ***console***.log(result.toString(2));  
 a <<=1;  
 b >>=1;  
 }  
 return result;  
 }  
 c=prompt('enter first integer');  
 d=prompt('enter sacend integer');  
 ***console***.log(xorMultiply(c,d))  
</script>

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**Proof:**

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