

```
class Solution {  
    public int getSum(int a, int b) {  
        if (a == 0)  
            return b;  
        while (b != 0) {  
            // get the carry for this addition  
            int c = a & b;  
  
            // addition happens here  
            a = a ^ b;  
  
            // shift towards left one bit in order to apply the carry in next addition operation  
            b = c << 1;  
        }  
        return a;  
    }  
}
```