

Add two positive numbers a and b

$$f = a + b$$

must return f as an integer

Cannot use +. Must use one bit adder

ZERO marks will be given if you use list[], string, set or dict
MUST USE self._add1 to add each digit of the number
Can use anything from the language (cannot use library) for assembling final answer

```
def _add1(self, a: 'int', b: 'int', c: 'int')->'[carry, sum]':  
    assert(a >= 0 and a < 10)  
    assert(b >= 0 and b < 10)  
    assert(c >= 0 and c < 2)  
    self._work[0] += 1  
    l = [0,0]  
    tsum = a + b + c  
    if (tsum > 9):  
        l[0] = 1  
        l[1] = tsum - 10  
    else:  
        l[1] = tsum  
    return l
```