

secretOp(a, b), loop 1:

$$a_{div} = a / 3$$

$$a_{rem1} = a \% 3$$

← possible values  
 $\{0, 1, 2\}$

$$b_{div} = b / 3$$

$$b_{rem1} = b \% 3$$

$\{0, 1, 2\}$

$$b_{rem2} = b_{rem1} \% 2$$

$\{0, 1\}$

if ( $b_{rem2} == 0$ ) {

$$a_{rem1\_add} = a_{rem1} + 2$$

$\{2, 3, 4\}$

} else {

$$a_{rem1\_add} = a_{rem1} + 1$$

$\{1, 2, 3\}$

}

$$a_{rem2} = a_{rem1\_add} \% 3$$

$\{0, 1, 2\}$

s.push( $a_{rem2}$ )