

3(a) c b a c b a
3 2 1 3 2 2 1

$$54 = 3 \cdot 17 + 3$$

$$17 = 3 \cdot 5 + 2$$

$$5 = 3 \cdot 1 + 2$$

$$1 = 3 \cdot 0 + 1$$

~~542~~

$$162 = 3 \cdot 51 + 1$$

$$459 = 3 \cdot 153 + 2$$

$$491 = 3 \cdot 162 + 2$$

$$\boxed{11476} = 3 \cdot 491 + 3$$