```
MODULAR-EXPONENTIATION($a, b, n$)
if $b == 0$
        return 1
elseif $b \bmod 2 == 0$
        $d$ = MODULAR-EXPONENTIATION($a, b/2, n$)      // $b$ is even
        return $(d \cdot d) \bmod n$
else $d$ = MODULAR-EXPONENTIATION($a, b - 1, n$)   // $b$ is odd
        return $(a \cdot d) \bmod n$
```