```
procedure BINARY_EXP(x, n)
    if n = 0 then return 1
    if n = 1 then return x

    if n % 2 = 0 then
        y ← Binary_Exp(x, n/2)
        return y * y
    else
        y ← Binary_Exp(x, ⌊n/2⌋)
        return x * y * y
```