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```

Ejercicio 2
...
unsigned exercise2 (unsigned n) {
    unsigned i=n, k=0;
    while (i>0){
        unsigned j=i;
        do{
            j = j * 3;
            k = k + 1;
        } while (j<=n);
        i = i / 3;
    }
    return k;
}

```

Ej. 2

Hay caso mejor y peor?

No

Tamaño $\rightarrow n$

iter cycle	iter do while	i
1	1	n
2	2	n/3
3	3	n/9
⋮	⋮	⋮
k	k	n/3 ^{k-1} = 1

$$k = \log_3 n$$

$$\sum_{i=1}^k i = \sum_{i=1}^{\log_3 n} i = (1 + \log_3 n) \cdot \frac{\log_3 n}{2} = \log_3^2 n \in \Theta(\log^2 n)$$