

255√ (Collatz) Let n be a natural variable. It is easy to prove

$n'=1 \iff$ **if** $n=1$ **then** *ok*
else if *even* n **then** $n:=n/2$ **else** $n:=3 \times n + 1$ **fi**.
 $n'=1$ **fi**

The problem is to find the execution time.

§ see book Section 4.2