

# Collatz Function

$$\text{col}(n) = \begin{cases} 3n+1 & \text{if } n \text{ is odd} \\ \frac{n}{2} & \text{if } n \text{ is even} \end{cases}$$

EXAMPLE:

$$5 \xrightarrow{1} 16 \xrightarrow{2} 8 \xrightarrow{3} 4 \xrightarrow{4} 2 \xrightarrow{5} 1$$

↑  
Stopping Time

Stopping Time:

$\text{stop}(n)$  is the number of iterations of collatz function required to get to 1 from  $n$ .

# EXAMPLE:

