

Collatz Conjecture Proof Attempt

By: The illusion of the Fernando Rosas "self"

$$\text{if odd, } T(j) = \frac{3j + 1}{2}$$

$$\text{if even, } T(j) = \frac{j}{2}$$

call the sequence of iterates $(j, T^1(j), T^2(j), T^3(j), T^k(j) \dots)$ the trajectory of j

The Trajectory of j has three possible behaviors for all integers $j > 0$

Convergent trajectory, Divergent trajectory to infinity, and non-trivial cyclic trajectory

We will prove that the divergent and cyclic trajectories are impossible by contradiction.

Impossibility of divergence proof with only odds

Sub-proof of case with no division by 2

Suppose there exists a sequence of iterates that has no even element and diverges to infinity, then we can easily produce the results of such sequence

j

$$\frac{3j+1}{2} = j + \frac{1}{2}(j + 1) = \frac{3^1}{2^1}(j + 1) - 1$$

$$\frac{3j+5}{4} = 2j + 1 + \frac{1}{2}(j + 1) = \frac{3^2}{2^2}(j + 1) - 1$$

$$\frac{27j+19}{8} = 3j + 2 + \frac{1}{4}(j + 1) = \frac{3^3}{2^3}(j + 1) - 1$$

$$\frac{81j+65}{16} = 5j + 4 + \frac{1}{8}(j + 1) = \frac{3^4}{2^4}(j + 1) - 1$$

$$\frac{243j+211}{32} = 7j + 6 + \frac{1}{16}(j + 1) = \frac{3^5}{2^5}(j + 1) - 1$$

...

The $T^k(j)$ term is equivalent to $j \frac{3^k}{2^k} + \frac{3^k - 2^k}{2^k} = \frac{3^k}{2^k}(j + 1) - 1 = \text{odd}$

Consequently,

$j + 1$ must be a factor of 2^{k+1} , which implies $j + 1 \geq 2^{k+1}$

j cannot be a specific odd integer since $\lim_{k \rightarrow \infty} 2^{k+1} \rightarrow \infty$

Therefore, $T(j)$ with only odd elements cannot exist.

Conjecture And Proof

Nachum Dershowitz



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