Collatz Conjecture Proof Attempt

By: The illusion of the Fernando Rosas "self"

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

if even, $\quad T(j) = \dfrac{j}{2}$

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

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

$\dfrac{9j+5}{4} \qquad = \qquad 2j + 1 + \frac{1}{4}(j+1) = \frac{3^2}{2^2}(j+1) - 1$

$\dfrac{27j+19}{8} \qquad = \qquad 3j + 2 + \frac{5}{8}(j+1) = \frac{3^3}{2^3}(j+1) - 1$

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

$\dfrac{243j+211}{32} \qquad = \qquad 7j + 6 + \frac{13}{32}(j+1) = \frac{3^5}{2^5}(j+1) - 1$

...

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

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 $\lim_{k \to \infty} 2^{k+1} \to \infty$
Therefore, $T(j)$ with only odd elements cannot exist.

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