

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

R Pring



Conjecture And Proof:

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In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Conjecture And Proof**," an enthralling opus penned by a highly acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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