



27 july 2023

The problem:

The Collatz conjecture, also known as the 3n + 1 problem, is a famous unsolved mathematical problem. The conjecture states that for any positive integer n:

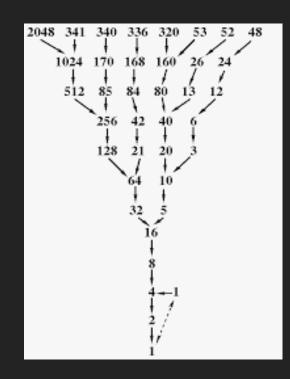
- If n is even, divide it by 2 (n // 2).
- If n is odd, multiply it by 3 and add 1 (3 * n + 1).
- Repeat the process with the new value of n.

The conjecture suggests that, regardless of the starting value of n, this process will eventually reach the value 1.

The Example:

Enter a number: 16

- -> 8
- -> **4**
- -> 2
- -> Here we are we reached: 1



Thanks and best wishes,

Sahraoui mohammed.

Ethical hacker and future security researcher **incha allah.**

Sahraoui Mohammed