JUGGLER SEQUENCE ALGORITHM

TIME COMPLEXITY ANALYSIS:

- The time complexity is determined by the number of iterations in the loop. The loop runs until the value becomes 1.
- In the worst case, the number of iterations required to reach 1 can be considered logarithmic with base 2.
- Therefore, the **time complexity** is often stated as **O(nlogn)**.
- However, it's worth noting that it's conjectured that all Juggler sequences eventually reach 1, but this conjecture has not been **proven**. Therefore, we're effectively blocked from completing a Big O time complexity analysis.
- The space complexity of the Juggler sequence algorithm is O(1), as it only requires a constant amount of space to store the current term in the sequence.