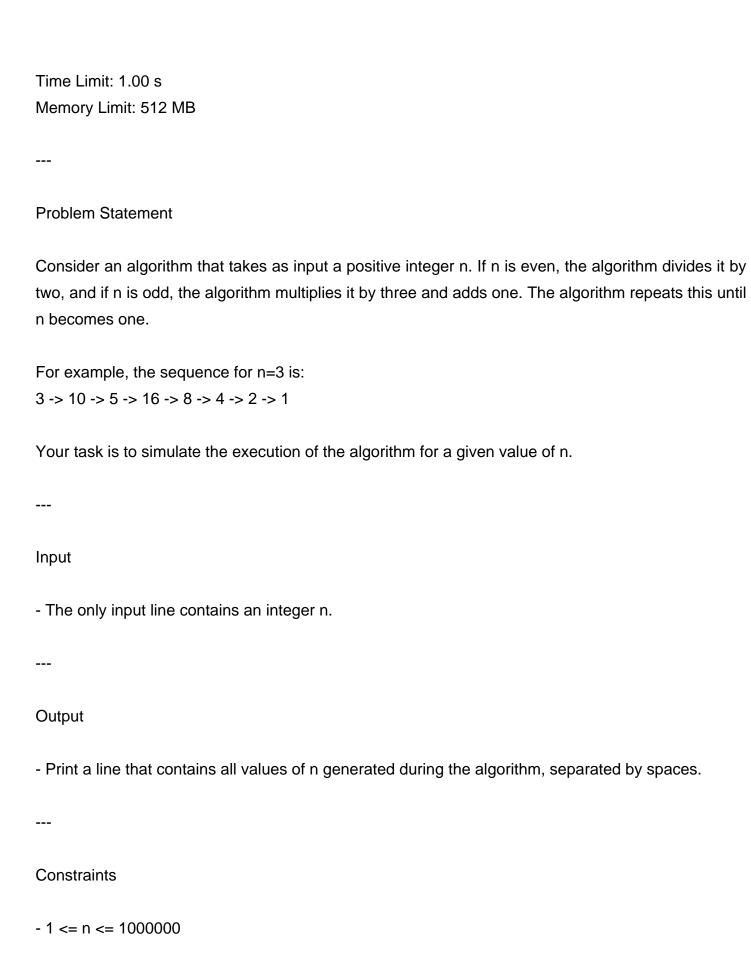
## **Collatz Sequence Simulation**



---

## Example

Input

3

Output

3 10 5 16 8 4 2 1

## Explanation:

Starting from 3, the algorithm generates the sequence until reaching 1.