

# 1201. Ugly Number III

## Description

An **ugly number** is a positive integer that is divisible by `a`, `b`, or `c`.

Given four integers `n`, `a`, `b`, and `c`, return the `nth` **ugly number**.

### Example 1:

**Input:** `n = 3, a = 2, b = 3, c = 5`

**Output:** `4`

**Explanation:** The ugly numbers are 2, 3, 4, 5, 6, 8, 9, 10... The 3<sup>rd</sup> is 4.

### Example 2:

**Input:** `n = 4, a = 2, b = 3, c = 4`

**Output:** `6`

**Explanation:** The ugly numbers are 2, 3, 4, 6, 8, 9, 10, 12... The 4<sup>th</sup> is 6.

### Example 3:

**Input:** `n = 5, a = 2, b = 11, c = 13`

**Output:** `10`

**Explanation:** The ugly numbers are 2, 4, 6, 8, 10, 11, 12, 13... The 5<sup>th</sup> is 10.

### Constraints:

- `1 <= n, a, b, c <= 109`
- `1 <= a * b * c <= 1018`
- It is guaranteed that the result will be in range `[1, 2 * 109]`.

