3622. Check Divisibility by Digit Sum and Product

Solved

Easy Hint

You are given a positive integer `n`. Determine whether `n` is divisible by the **sum** of the following two values:

- The **digit sum** of `n` (the sum of its digits).
- The **digit product** of `n` (the product of its digits).

Return `true` if `n` is divisible by this sum; otherwise, return `false`.

Example 1:

> **Input:** n = 99
>
> **Output:** true
>
> **Explanation:**
>
> Since 99 is divisible by the sum (9 + 9 = 18) plus product (9 * 9 = 81) of its digits (total 99), the output is true.

Example 2:

> **Input:** n = 23
>
> **Output:** false
>
> **Explanation:**
>
> Since 23 is not divisible by the sum (2 + 3 = 5) plus product (2 * 3 = 6) of its digits (total 11), the output is false.

Constraints:

- $1 <= n <= 10^6$

Seen this question in a real interview before? 1/5

Yes No

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Topics

Hint 1

Discussion (9)