2652. Sum Multiples

Solved

Easy | Topics | Companies | Hint

Given a positive integer `n`, find the sum of all integers in the range `[1, n]` **inclusive** that are divisible by `3`, `5`, or `7`.

Return *an integer denoting the sum of all numbers in the given range satisfying the constraint.*

Example 1:

> **Input:** n = 7
> **Output:** 21
> **Explanation:** Numbers in the range `[1, 7]` that are divisible by `3`, `5`, or `7` are `3, 5, 6, 7`. The sum of these numbers is `21`.

Example 2:

> **Input:** n = 10
> **Output:** 40
> **Explanation:** Numbers in the range `[1, 10] that are` divisible by `3`, `5`, or `7` are `3, 5, 6, 7, 9, 10`. The sum of these numbers is 40.

Example 3:

> **Input:** n = 9
> **Output:** 30
> **Explanation:** Numbers in the range `[1, 9]` that are divisible by `3`, `5`, or `7` are `3, 5, 6, 7, 9`. The sum of these numbers is `30`.

Constraints:

- `1 <= n <= 10^3`