2507. Smallest Value After Replacing With Sum of Prime Factors

Description

You are given a positive integer `n`.

Continuously replace `n` with the sum of its **prime factors**.

- Note that if a prime factor divides `n` multiple times, it should be included in the sum as many times as it divides `n`.

Return *the smallest value* `n` *will take on.*

Example 1:

```
Input: n = 15
Output: 5
Explanation: Initially, n = 15.
15 = 3 * 5, so replace n with 3 + 5 = 8.
8 = 2 * 2 * 2, so replace n with 2 + 2 + 2 = 6.
6 = 2 * 3, so replace n with 2 + 3 = 5.
5 is the smallest value n will take on.
```

Example 2:

```
Input: n = 3
Output: 3
Explanation: Initially, n = 3.
3 is the smallest value n will take on.
```

Constraints:

- `2 <= n <= 10^5`