2549. Count Distinct Numbers on Board

Description

You are given a positive integer `n`, that is initially placed on a board. Every day, for `10 ^ 9` days, you perform the following procedure:

- For each number `x` present on the board, find all numbers `1 <= i <= n` such that `x % i == 1`.
- Then, place those numbers on the board.

Return *the number of **distinct** integers present on the board after `10 ^ 9` days have elapsed*.

Note:

- Once a number is placed on the board, it will remain on it until the end.
- `%` stands for the modulo operation. For example, `14 % 3` is `2`.

Example 1:

```
Input: n = 5
Output: 4
Explanation: Initially, 5 is present on the board.
The next day, 2 and 4 will be added since 5 % 2 == 1 and 5 % 4 == 1.
After that day, 3 will be added to the board because 4 % 3 == 1.
At the end of a billion days, the distinct numbers on the board will be 2, 3, 4, and 5.
```

Example 2:

```
Input: n = 3
Output: 2
Explanation:
Since 3 % 2 == 1, 2 will be added to the board.
After a billion days, the only two distinct numbers on the board are 2 and 3.
```

Constraints:

- `1 <= n <= 100`