# 2300. Successful Pairs of Spells and Potions

Solved

Medium

Topics



You are given two positive integer arrays spells and potions, of length n and m respectively, where spells[i] represents the strength of the  $j^{th}$  potion.

You are also given an integer success. A spell and potion pair is considered **successful** if the **product** of their strengths is **at least** success.

Return an integer array pairs of length n where pairs[i] is the number of **potions** that will form a successful pair with the ith spell.

# Example 1:

**Input:** spells = [5,1,3], potions = [1,2,3,4,5], success = 7

Output: [4,0,3] **Explanation**:

- 0<sup>th</sup> spell: 5 \* [1,2,3,4,5] = [5,10,15,20,25]. 4 pairs are successful.
- $1^{st}$  spell: 1 \* [1,2,3,4,5] = [1,2,3,4,5]. 0 pairs are successful.
- $-2^{nd}$  spell: 3 \* [1,2,3,4,5] = [3,6,**9,12,15**]. 3 pairs are successful.

Thus, [4,0,3] is returned.

### Example 2:

**Input:** spells = [3,1,2], potions = [8,5,8], success = 16

Output: [2,0,2] **Explanation**:

- $0^{th}$  spell: 3 \* [8,5,8] = [24,15,24]. 2 pairs are successful.
- 1<sup>st</sup> spell: 1 \* [8,5,8] = [8,5,8]. 0 pairs are successful.
- $2^{\text{nd}}$  spell: 2 \* [8,5,8] = [16,10,16]. 2 pairs are successful.

Thus, [2,0,2] is returned.

#### **Constraints:**

- n == spells.length
- m == potions.length
- 1 <= n, m <= 10<sup>5</sup>
- 1 <= spells[i], potions[i] <= 10<sup>5</sup>
- 1 <= success <= 10<sup>10</sup>

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

Yes No

## Accepted 318.795/661.5K Acceptance Rate 48.2%

Topics

Hint 1

**E** 

| Hint 2            | ~        |
|-------------------|----------|
| Hint 3            | ~        |
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