

Medium 182 9 Add to List Share

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` .

Example 1:

Output: [4,0,3]

Explanation:

- 0th spell: $5 * [1,2,3,4,5] = [5, \underline{10}, \underline{15}, \underline{20}, \underline{25}]$. 4 pairs are successful.

- 1st spell: $1 * [1,2,3,4,5] = [1,2,3,4,5]$. 0 pairs are successful.

- 2nd spell: $3 * [1,2,3,4,5] = [3,6,\underline{9},\underline{12},\underline{15}]$. 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:

- 0th spell: $3 * [8, 5, 8] = [\underline{24}, 15, \underline{24}]$. 2 pairs are successful.

- 1st spell: $1 * [8,5,8] = [8,5,8]$. 0 pairs are successful.

- 2nd spell: $2 * [8, 5, 8] = [\underline{16}, 10, \underline{16}]$. 2 pairs are successful.

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

Constraints:

- `n == spells.length`
- `m == potions.length`
- `1 <= n, m <= 105`
- `1 <= spells[i], potions[i] <= 105`
- `1 <= success <= 1010`

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Seen this question in a real interview before?

Yes No

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```
1  class Solution {
2      public int[] successfulPairs(int[] spells, int[] potions, long success) {
3      }
4  }
5  }
```