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5913. Maximum Number of Tasks You Can Assign

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You have n tasks and m workers. Each task has a strength requirement stored in a 0-indexed integer array tasks, with the ith task requiring tasks[i] strength to complete. The strength of each worker is stored in a O-indexed integer array workers, with the jth worker having workers[j] strength. Each worker can only be assigned to a single task and must have a strength greater than or equal to the task's strength requirement (i.e., workers[j] >= tasks[i]).

Additionally, you have pills magical pills that will increase a worker's strength by strength. You can decide which workers receive the magical pills, however, you may only give each worker at most one magical pill.

Given the **0-indexed** integer arrays tasks and workers and the integers pills and strength, return the maximum number of tasks that can be completed.

User Accepted:	0
User Tried:	0
Total Accepted:	0
Total Submissions:	0
Difficulty:	Hard

Example 1:

```
Input: tasks = [3,2,1], workers = [0,3,3], pills = 1, strength = 1
Output: 3
Explanation:
We can assign the magical pill and tasks as follows:
- Give the magical pill to worker 0.
- Assign worker 0 to task 2 (0 + 1 >= 1)
- Assign worker 1 to task 1 (3 >= 2)
- Assign worker 2 to task 0 (3 >= 3)
```

Example 2:

```
Input: tasks = [\underline{5}, 4], workers = [\underline{0}, 0, 0], pills = 1, strength = 5
Output: 1
Explanation:
We can assign the magical pill and tasks as follows:
- Give the magical pill to worker 0.
- Assign worker 0 to task 0 (0 + 5 \ge 5)
```

Example 3:

```
Input: tasks = [10,15,30], workers = [0,10,10,10], pills = 3, strength = 10
Output: 2
Explanation:
We can assign the magical pills and tasks as follows:
- Give the magical pill to worker 0 and worker 1.
- Assign worker 0 to task 0 (0 + 10 \geq 10)
- Assign worker 1 to task 1 (10 + 10 >= 15)
```

Example 4:

```
Input: tasks = [5, 9, 8, 5, 9], workers = [1, 6, 4, 2, 6], pills = 1, strength = 5
Output: 3
Explanation:
We can assign the magical pill and tasks as follows:
- Give the magical pill to worker 2.
- Assign worker 1 to task 0 (6 >= 5)
- Assign worker 2 to task 2 (4 + 5 >= 8)
- Assign worker 4 to task 3 (6 >= 5)
```

Constraints:

n == tasks.length
 m == workers.length
 1 <= n, m <= 5 * 10⁴
 0 <= pills <= m

```
• 0 <= tasks[i], workers[j], strength <= 10^9
 JavaScript
  1 • /**
       * @param {number[]} tasks
       * @param {number[]} workers
       * @param {number} pills
  5
       * @param {number} strength
       * @return {number}
  6
  7
  8 var maxTaskAssign = function(tasks, workers, pills, strength) {
 10
     };
□ Custom Testcase
                      Use Example Testcases
                                                                                                                    Run
                                                                                                                               ♠ Submit
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```