

3476. Maximize Profit from Task Assignment Premium

Solved ●

Medium  Topics  Hint

You are given an integer array `workers`, where `workers[i]` represents the skill level of the i^{th} worker. You are also given a 2D integer array `tasks`, where:

- `tasks[i][0]` represents the skill requirement needed to complete the task.
- `tasks[i][1]` represents the profit earned from completing the task.

Each worker can complete **at most** one task, and they can only take a task if their skill level is **equal** to the task's skill requirement. An **additional** worker joins today who can take up *any* task, **regardless** of the skill requirement.

Return the **maximum** total profit that can be earned by optimally assigning the tasks to the workers.

Example 1:

Input: `workers = [1,2,3,4,5]`, `tasks = [[1,100],[2,400],[3,100],[3,400]]`

Output: 1000

Explanation:

- Worker 0 completes task 0.
- Worker 1 completes task 1.
- Worker 2 completes task 3.
- The additional worker completes task 2.

Example 2:

Input: `workers = [10,10000,100000000]`, `tasks = [[1,100]]`

Output: 100

Explanation:

Since no worker matches the skill requirement, only the additional worker can complete task 0.

Example 3:

Input: `workers = [7]`, `tasks = [[3,3],[3,3]]`

Output: 3

Explanation:

The additional worker completes task 1. Worker 0 cannot work since no task has a skill requirement of 7.

Constraints:

- $1 \leq \text{workers.length} \leq 10^5$
- $1 \leq \text{workers}[i] \leq 10^9$
- $1 \leq \text{tasks.length} \leq 10^5$
- $\text{tasks}[i].\text{length} == 2$
- $1 \leq \text{tasks}[i][0], \text{tasks}[i][1] \leq 10^9$

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

Yes No

Accepted 565/864 | Acceptance Rate 65.4%

Topics	▼
Hint 1	▼
Hint 2	▼
Hint 3	▼
Discussion (2)	▼

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