

826. Most Profit Assigning Work



Medium



1.4K



122



Companies

You have n jobs and m workers. You are given three arrays: `difficulty`, `profit`, and `worker` where:

- `difficulty[i]` and `profit[i]` are the difficulty and the profit of the i^{th} job, and
- `worker[j]` is the ability of j^{th} worker (i.e., the j^{th} worker can only complete a job with difficulty at most `worker[j]`).

Every worker can be assigned **at most one job**, but one job can be **completed multiple times**.

- For example, if three workers attempt the same job that pays `$1`, then the total profit will be `$3`. If a worker cannot complete any job, their profit is `$0`.

Return the maximum profit we can achieve after assigning the workers to the jobs.

Example 1:

Input: `difficulty = [2,4,6,8,10]`, `profit = [10,20,30,40,50]`, `worker = [4,5,6,7]`

Output: 100

Explanation: Workers are assigned jobs of difficulty `[4,4,6,6]` and they get a profit of `[20,20,30,30]` separately.

Example 2:

Input: `difficulty = [85,47,57]`, `profit = [24,66,99]`, `worker = [40,25,25]`

Output: 0

Constraints:

- $n == \text{difficulty.length}$
- $n == \text{profit.length}$
- $m == \text{worker.length}$
- $1 \leq n, m \leq 10^4$
- $1 \leq \text{difficulty}[i], \text{profit}[i], \text{worker}[i] \leq 10^5$

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Seen this question in a real interview before? 1/4

Yes No

Discussion (5)



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