2363. Merge Similar Items

My Submissions (/contest/biweekly-contest-84/problems/merge-similar-items/submissions/) Back to Contest (/contest/biweekly-contest-84/)

User Accepted:	10741
User Tried:	11376
Total Accepted:	11241
Total Submissions:	15840
Difficulty:	Easy

You are given two 2D integer arrays, `items1` and `items2`, representing two sets of items. Each array `items` has the following properties:

- `items[i] = [value_i, weight_i]` where `value_i` represents the **value** and `weight_i` represents the **weight** of the i^{th} item.
- The value of each item in `items` is **unique**.

Return *a 2D integer array* `ret` *where* `ret[i] = [value_i, weight_i]`, *with* `weight_i` *being the* ***sum of weights*** *of all items with value* `value_i`.

Note: `ret` should be returned in **ascending** order by value.

Example 1:

```
Input: items1 = [[1,1],[4,5],[3,8]], items2 = [[3,1],[1,5]]
Output: [[1,6],[3,9],[4,5]]
Explanation:
The item with value = 1 occurs in items1 with weight = 1 and in items2 with weight = 5, total weight = 1 + 5 = 6.
The item with value = 3 occurs in items1 with weight = 8 and in items2 with weight = 1, total weight = 8 + 1 = 9.
The item with value = 4 occurs in items1 with weight = 5, total weight = 5.
Therefore, we return [[1,6],[3,9],[4,5]].
```

Example 2:

```
Input: items1 = [[1,1],[3,2],[2,3]], items2 = [[2,1],[3,2],[1,3]]
Output: [[1,4],[2,4],[3,4]]
Explanation:
The item with value = 1 occurs in items1 with weight = 1 and in items2 with weight = 3, total weight = 1 + 3 = 4.
The item with value = 2 occurs in items1 with weight = 3 and in items2 with weight = 1, total weight = 3 + 1 = 4.
The item with value = 3 occurs in items1 with weight = 2 and in items2 with weight = 2, total weight = 2 + 2 = 4.
Therefore, we return [[1,4],[2,4],[3,4]].
```

Example 3:

```
Input: items1 = [[1,3],[2,2]], items2 = [[7,1],[2,2],[1,4]]
Output: [[1,7],[2,4],[7,1]]
Explanation:
The item with value = 1 occurs in items1 with weight = 3 and in items2 with weight = 4, total weight = 3 + 4 = 7.
The item with value = 2 occurs in items1 with weight = 2 and in items2 with weight = 2, total weight = 2 + 2 = 4.
The item with value = 7 occurs in items2 with weight = 1, total weight = 1.
Therefore, we return [[1,7],[2,4],[7,1]].
```

Constraints:

- `1 <= items1.length, items2.length <= 1000`
- `items1[i].length == items2[i].length == 2`
- `1 <= value_i, weight_i <= 1000`
- Each `value_i` in `items1` is **unique**.
- Each `value_i` in `items2` is **unique**.

Discuss (https://leetcode.com/problems/merge-similar-items/discuss)

JavaScript

```
const addOneOrManyMap = (m, x, cnt = 1) => m.set(x, m.get(x) + cnt || cnt);

const mergeSimilarItems = (a, b) => {
    let m = new Map();
    for (const [v, w] of a) addOneOrManyMap(m, v, w);
```

```
    for (const [v, w] of b) addOneOrManyMap(m, v, w);
    return Array.from(m.entries()).sort((x, y) => x[0] - y[0]);
};
```

Custom Testcase | Use Example Testcases

Run | Submit

Submission Result: Accepted (/submissions/detail/767314893/) | More Details > (/submissions/detail/767314893/)

Share your acceptance!