1090. Largest Values From Labels

Solved

Medium Topics Hint

You are given `n` item's value and label as two integer arrays `values` and `labels`. You are also given two integers `numWanted` and `useLimit`.

Your task is to find a subset of items with the **maximum sum** of their values such that:

- The number of items is **at most** `numWanted`.
- The number of items with the same label is **at most** `useLimit`.

Return the maximum sum.

Example 1:

> **Input:** values = [5,4,3,2,1], labels = [1,1,2,2,3], numWanted = 3, useLimit = 1
>
> **Output:** 9
>
> **Explanation:**
>
> The subset chosen is the first, third, and fifth items with the sum of values 5 + 3 + 1.

Example 2:

> **Input:** values = [5,4,3,2,1], labels = [1,3,3,3,2], numWanted = 3, useLimit = 2
>
> **Output:** 12
>
> **Explanation:**
>
> The subset chosen is the first, second, and third items with the sum of values 5 + 4 + 3.

Example 3:

> **Input:** values = [9,8,8,7,6], labels = [0,0,0,1,1], numWanted = 3, useLimit = 1
>
> **Output:** 16
>
> **Explanation:**
>
> The subset chosen is the first and fourth items with the sum of values 9 + 7.

Constraints:

- `n == values.length == labels.length`
- `1 <= n <= 2 * 10^4`
- `0 <= values[i], labels[i] <= 2 * 10^4`
- `1 <= numWanted, useLimit <= n`

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

Yes No

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Topics

Hint 1

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