

2512. Reward Top K Students

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You are given two string arrays `positive_feedback` and `negative_feedback` , containing the words denoting positive and negative feedback, respectively. Note that **no** word is both positive and negative.

Initially every student has `0` points. Each positive word in a feedback report **increases** the points of a student by `3` , whereas each negative word **decreases** the points by `1` .

You are given `n` feedback reports, represented by a **0-indexed** string array `report` and a **0-indexed** integer array `student_id` , where `student_id[i]` represents the ID of the student who has received the feedback report `report[i]` . The ID of each student is **unique**.

Given an integer `k` , return *the top k students after ranking them in **non-increasing** order by their points*. In case more than one student has the same points, the one with the lower ID ranks higher.

User Accepted:	4626
User Tried:	5823
Total Accepted:	4728
Total Submissions:	11860
Difficulty:	Medium

Example 1:

Input: `positive_feedback = ["smart","brilliant","studious"], negative_feedback = ["not"], report = ["this student is studious", "this student is not studious"]`
Output: `[1,2]`
Explanation:
Both the students have 1 positive feedback and 3 points but since student 1 has a lower ID he ranks higher.

Example 2:

Input: `positive_feedback = ["smart","brilliant","studious"], negative_feedback = ["not"], report = ["this student is not studious", "this student is not studious"]`
Output: `[2,1]`
Explanation:
- The student with ID 1 has 1 positive feedback and 1 negative feedback, so he has 3-1=2 points.
- The student with ID 2 has 1 positive feedback, so he has 3 points.
Since student 2 has more points, `[2,1]` is returned.

Constraints:

- `1 <= positive_feedback.length, negative_feedback.length <= 104`
- `1 <= positive_feedback[i].length, negative_feedback[j].length <= 100`
- Both `positive_feedback[i]` and `negative_feedback[j]` consists of lowercase English letters.
- No word is present in both `positive_feedback` and `negative_feedback`.
- `n == report.length == student_id.length`
- `1 <= n <= 104`
- `report[i]` consists of lowercase English letters and spaces ' ' .
- There is a single space between consecutive words of `report[i]`.
- `1 <= report[i].length <= 100`
- `1 <= student_id[i] <= 109`
- All the values of `student_id[i]` are **unique**.
- `1 <= k <= n`

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JavaScript

```
1 const topStudents = (positive_feedback, negative_feedback, report, id, k) => {
2   let pset = new Set(positive_feedback), nset = new Set(negative_feedback), n = report.length, d = [];
3   for (let i = 0; i < n; i++) {
4     let a = report[i].split(" "), mark = 0;
5     for (const s of a) {
6       if (pset.has(s)) mark += 3;
7       if (nset.has(s)) mark--;
8     }
9   }
10  return d.sort((a, b) => b[1] - a[1] || a[0] - b[0]).slice(0, k);
11 }
```

```
9      d.push([mark, id[i]]);
10     }
11     d.sort((x, y) => {
12         if (x[0] != y[0]) return y[0] - x[0];
13         return x[1] - y[1];
14     });
15     return d.slice(0, k).map(x => x[1]);
16 };
```

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