2512. Reward Top K Students

Description

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.

Example 1:

```
Input: positive_feedback = ["smart","brilliant","studious"], negative_feedback = ["not"], report = ["this student is studious","the student is smart"], student_id = [1,2], k = 2
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","the student is smart"], student_id = [1,2], k = 2
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 <= 10^4`
- `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 <= 10^4`
- `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] <= 10^9`
- All the values of `student_id[i]` are **unique**.
- `1 <= k <= n`