3439. Reschedule Meetings for Maximum Free Time I

Solved •

Medium Topics Companies 7 Hint

You are given an integer eventTime denoting the duration of an event, where the event occurs from time t = 0 to time t = 0 eventTime.

You are also given two integer arrays startTime and endTime, each of length n. These represent the start and end time of n **non-overlapping** meetings, where the ith meeting occurs during the time [startTime[i], endTime[i]].

You can reschedule **at most** k meetings by moving their start time while maintaining the **same duration**, to **maximize** the **longest** *continuous period of free time* during the event.

The **relative** order of all the meetings should stay the *same* and they should remain non-overlapping.

Return the **maximum** amount of free time possible after rearranging the meetings.

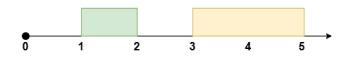
Note that the meetings can **not** be rescheduled to a time outside the event.

Example 1:

Input: eventTime = 5, k = 1, startTime = [1,3], endTime = [2,5]

Output: 2

Explanation:



Reschedule the meeting at [1, 2] to [2, 3], leaving no meetings during the time [0, 2].

Example 2:

Input: eventTime = 10, k = 1, startTime = [0,2,9], endTime = [1,4,10]

Output: 6

Explanation:



Reschedule the meeting at [2, 4] to [1, 3], leaving no meetings during the time [3, 9].

Example 3:

Input: eventTime = 5, k = 2, startTime = [0,1,2,3,4], endTime = [1,2,3,4,5]

Output: 0

Explanation:

There is no time during the event not occupied by meetings.

Constraints:

- 1 <= eventTime <= 10⁹
- n == startTime.length == endTime.length
- $2 \le n \le 10^5$
- 1 <= k <= n
- 0 <= startTime[i] < endTime[i] <= eventTime
- [indTime] <= startTime[i + 1] where in the range [0, n 2].

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

Yes No

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Hint 2

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