SORTING...

video - 6

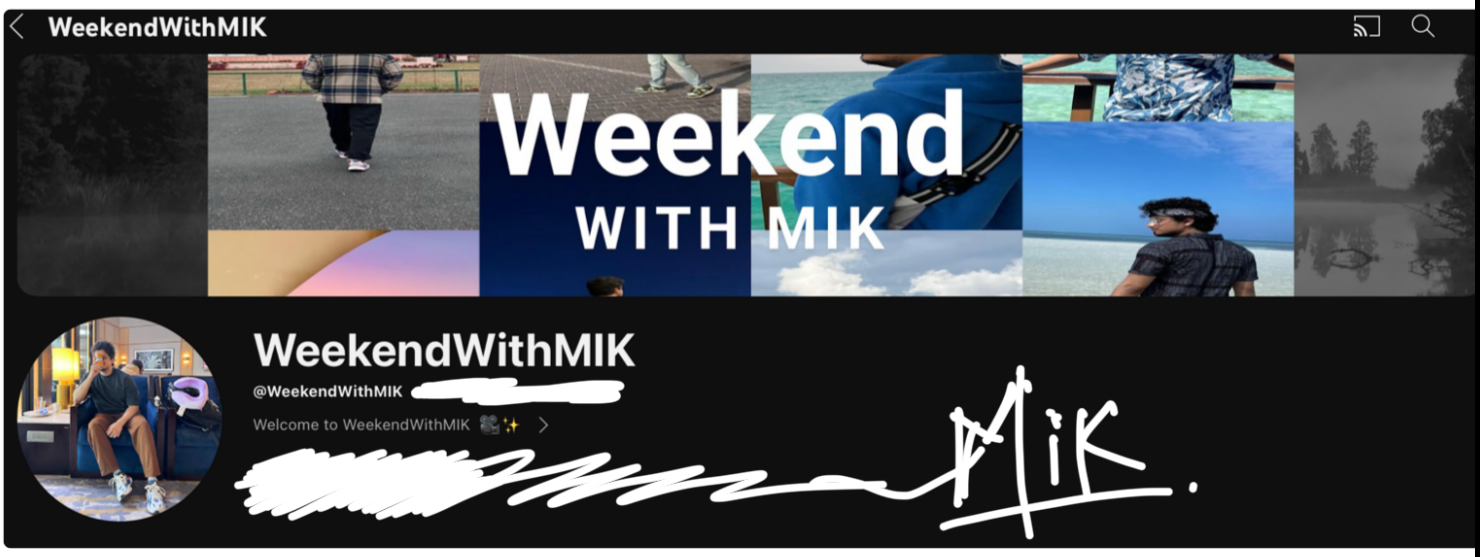
Leetcode - 1353

medium

codestorywithmiK

CSwithMIK

codestorywithMIK



Try this channel to
see "Life behind the Scenes + Tech News

Motivation -

If you want something BIG,
you need to work for it
EVERYDAY.
(Results will multiply)

1353. Maximum Number of Events That Can Be Attended

Medium | Topics | Companies | Hint

You are given an array of `events` where `events[i] = [startDay_i, endDay_i]`. Every event `i`

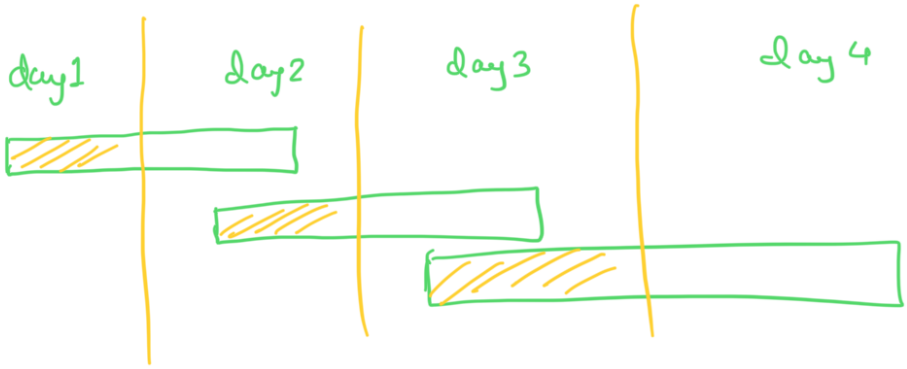
starts at $startDay_i$ and ends at $endDay_i$.

You can attend an event i at any day d where $startTime_i <= d <= endTime_i$. You can only attend one event at any time d.

Return *the maximum number of events you can attend*.

Example :- events = [(1,2), (2,3), (3,4)]

Output = 3



Thought Process

{ (3,7), (5,8), (1,2) }
i

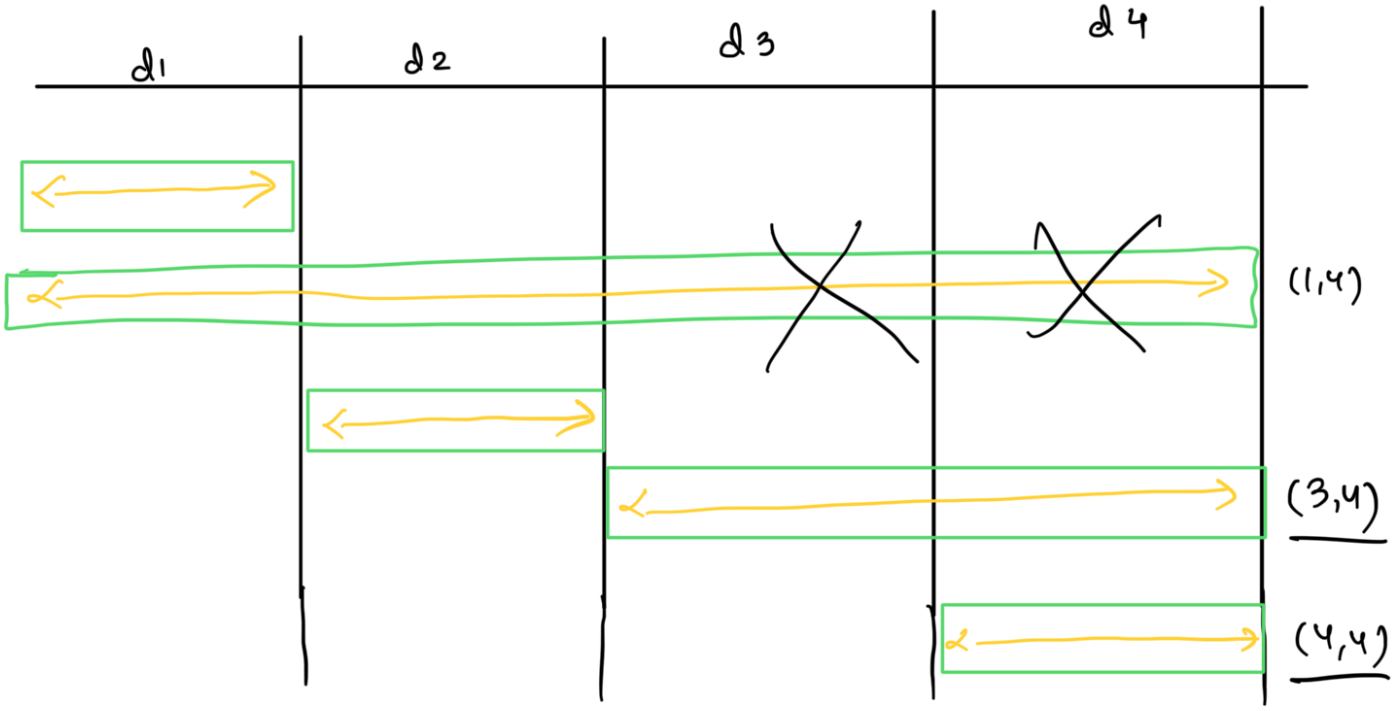
day = 1 → (1,2)
day = 2
day = 3 → (3,7)
day = 4
day = 5 → (5,8)

{ (1,2), (3,7), (5,8) }
i

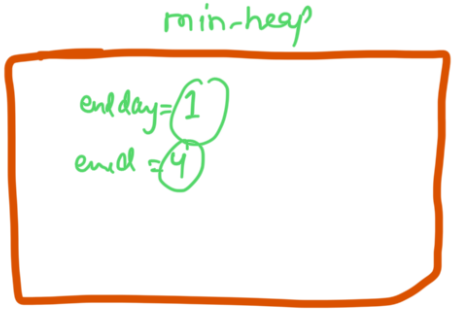
"Sort events based on the start day"

events = [(1,1), (1,4), (2,2), (3,4), (4,4)]

0 1 2 3 4 i



day = 1 2 3 4 5,



Finish

(1,1)
(2,2)
(1,4)
(3,4)

" For any day, if i have an option to select among events. I will choose the one that ends earlier. "

✓✓ Skip the events whose endDay < day.

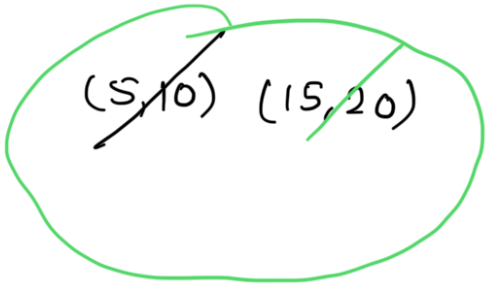
{ (5, 10), (15, 20) } sorted

0 1

i

day = events[0][0]; // 5

day = 16



Finish

(5, 10)

(15, 20) } ✓

Min-heap → (endDay).