Q5. An interval is represented as a combination of start time and end time.
Given a set of intervals, check if any two intervals intersect.

Input: arr[] = {{1, 3}, {5, 7}, {2, 4}, {6, 8}}
Output: Yes
The intervals {1, 3} and {2, 4} overlap

Input: arr[] = {{1, 3}, {7, 9}, {4, 6}, {10, 13}}
Output: No

{ (1, 3) , (5, 7) , (2, 4) , (6, 8) }

start end

2 6 2 6

max = 2

aux

0	1	1	-1	-1	1	1	-1	-1
0	1	2	3	4	5	6	7	8

x = arr[i].start

y = arr[i].end

prefix sum

0	1	2	1	0	1	2	1	0
0	1	2	3	4	5	6	7	8

Yes

{ (1,3) , (7,9) , (4,6) , (10,13) }

1 – 3 4 – 6 7 – 9 10 – 13

No

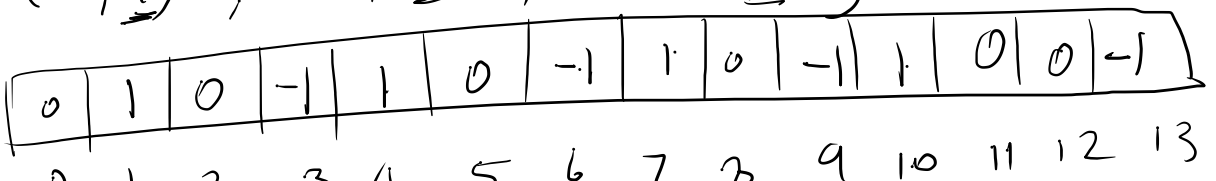
No overlap

No intersection

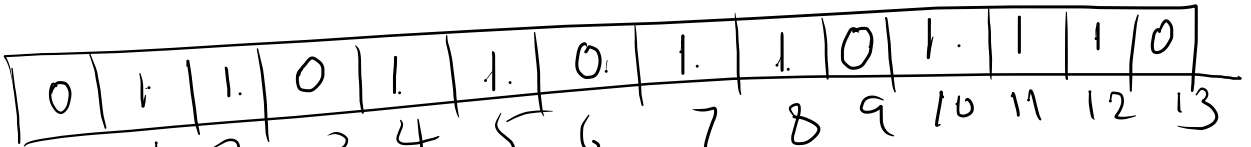
{(1,3), (7,9), (4,6), (10,13)}

max = 13

aux



prefix sum



NO