

June
2015

Wk - 23

155-210

Thursday

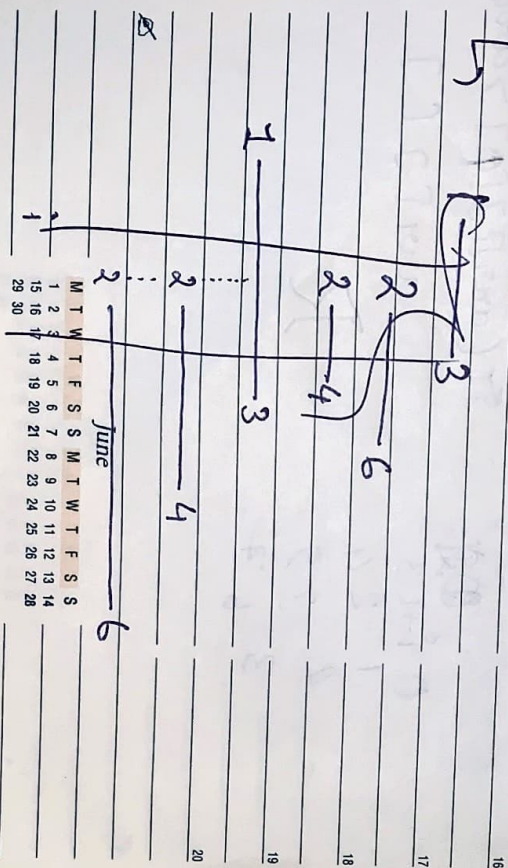
4

Merge Overlapping Sub Intervals

ex-

$[1, 3], [2, 6], [8, 9], [9, 11], [8, 10], [2, 4], [15, 18], [16, 17]$

We should merge overlapping intervals.
ex $(L_1, R_1), (L_2, R_2)$ are said to be overlapping if $L_2 \leq R_1$.

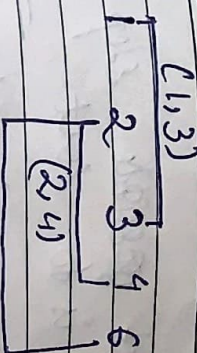


Friday

156-209

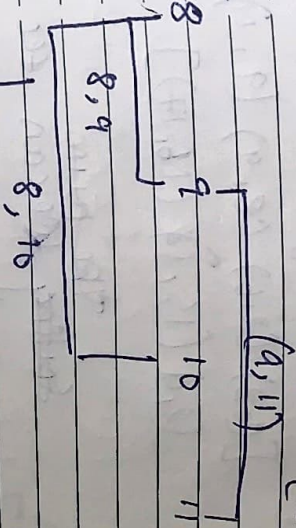
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Appointments



instead of this just sort it

we can consolidate into



we can merge all these arrays & simplify the result to $[1, 6], [8, 11], [15, 18]$

This can be simplified to $[1, 6], [8, 11], [15, 18]$

hence the result of the problem is $[1, 6], [8, 11], [15, 18]$

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157-208

Saturday

Appointments

9	
10	

12

13

158-207

WK - 23

WK - 23

N

July

M	T	W	T	F	S	S	M	T	W	T	F	S	S
1	2	3	4	5	6	7	8	9	10	11	12	13	14

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wt. 24

5

1

1

—

1

1

1

1

20

July

M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7	8	9	10	11	12	
13	14	15	16	17	18	19	20	21	22	23	24	25
26	27	28	29	30	31							



Tuesday

Appointments

~~SE~~ del-ay =

$$\begin{aligned} & \mathcal{S}(1,2)(2,4)(2,6)(8, \textcircled{9}), (8,10) \\ & (9,11)(15,18)(16,17) \end{aligned}$$

Pointa \rightarrow consider
Start \rightarrow from 1st interval
from 1st interval & start leaking from first interval

$$\{ (1, 3) \quad (2, 4) \quad (2, 6) \quad (8, 9) \}$$

$$\{ (8, 10) \quad (9, 11) \quad (15, 18) \quad (16, 17) \}$$
$$\begin{pmatrix} 1, 3 \\ 4, 8 \end{pmatrix} \begin{pmatrix} 2, 4 \\ 3, 2 \end{pmatrix} R_2$$

2
1
3

Stene Merges 1, 2R₂

$$L_2 \leq R_1 \text{ june}$$

TIMESS

(L, R)

[illegible]

④ $\rightarrow (1, 4)$

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2015

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Step 2. - (1,3)(2,4)

 $(2, 4) \quad (2, 6) \quad (8, 9) \quad (8, 10)$
$$(a_{r+1})$$

A

$$\begin{pmatrix} 5, 18 \\ 16, 17 \end{pmatrix}$$

(159228)

Compass A 2 (2,6)

 $(1, 4), (2, 6)$

41K1 62R2

$$L_2 < R_1 \Leftrightarrow \boxed{2 < 4}$$

Merge 4188?

update $A = \begin{bmatrix} 1, 6 \end{bmatrix}$

where A is a list

July

M	T	W	T	F	S	S	M	T	W	T	F	S	S
	1	2	3	4	5	6	7	8	9	10	11	12	
13	14	15	16	17	18	19	20	21	22	23	24	25	26
27	28	29	30	31									

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Step 2. - (1,3)(2,4)

 $(2, 4) \quad (2, 6) \quad (8, 9) \quad (8, 10)$
$$(a_{r+1})$$

A

$$\left\{ \begin{array}{l} (5, 18) \\ (16, 17) \end{array} \right\}$$

(159228)

Compass A 2 (2,6)

 $(1, 4), (2, 6)$

41K1 62R2

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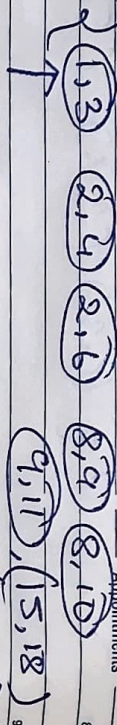
162-203

Thursday

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Step 3



$A = [1, 3, 2, 4, 2, 6]$

Now compare A with (8, 4)

$\therefore L_2 > R_1$
 $8 > 6$

Merge will not happen

Now pointer shifts from

(1, 3) to (8, 4)

while comparing while comparing

(1, 6) 2 (2, 4)

(1, 6) goal reached

that too

we know

that it

interval

June

skip

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Friday

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8.11y 2.6 exists now move the pointer to (8, 4)

(8, 6) hence start

that know

use know that this interval

element exist in After that

(1, 6) start the

process again

for (int i = 0; i < n; i++)

if (int start = arr[i][0];

int end = arr[i][1];

if (arr[i][0] is empty)

July

MTWTFSS
1 2 3 4 5 6 7 8 9 10 11 12
13 14 15 16 17 18 19 20 21 22 23 24 25 26
27 28 29 30 31

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~~2 loops~~

Has been described from of H. worker

F

164-201

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Saturday

Appointments

§ ~~start~~ = arr[i][0]

⑥ $R_1 = \text{arr}[i][1]$

If l_0 matrix is Empty -

PTD

14

Sunday

165-200

```
for(int j=i+1 ; j<n-1 ; j++)
```

$$L_2 = \text{arr}[i][0]$$
$$R_L = \text{avg}[j][i]$$

if ($L_2 \leq R_2$)

$$\{ R_2 = \max(R_2, R_1) \}$$

↳ use maximums
not $R_1 = R_2$

> We need to have the max end point in an array

matix adol

June													
M	T	W	T	F	S	S	M	T	W	T	F	S	S
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[illegible]