Interval	[8 6] -> [2 3]
	<u>5</u>
	T1 57

		anin
Ι,	12	
(I)(E)	(3)#)	2 6 TO 77
(2,81	(4,6)	<u></u>
(3,4)	(4,10)	10 EJ 107
13,67	(6,10)	7 6 C3 107
(25)	(8,10)	3 2 8 10 (NO ONENIAD)
(5 8)	(1 3)	(gellieus on) 3 Z Z

<u></u>	(8 ⁵ <u>1</u> 5	, e ²)	
	e,	S2 62	;t(3°>6')
72	62	S1 e1	(3 (8,>e2)

if $(l_2 > e, 11 l_1 > e_2) \longrightarrow no$ Overlap

if overlap \longrightarrow meaged interval

min(l_1,l_2), meas(e,e_2)

Given a sorted list of overlapping intervals, sorted based on start time, merge all overlapping intervals and return sorted list.

$$\frac{1}{2} = \frac{10}{2} =$$

$$\frac{I_1}{(S_1, e_1)} \frac{I_2}{(S_2 + S_1)}$$

$$\frac{S_1}{S_2} \frac{e_1}{e_2} \frac{S_1}{S_2} \frac{e_1}{e_2} \frac{S_1}{S_2} \frac{e_1}{e_2}$$

$$\frac{S_2}{S_2} \frac{e_2}{e_2} \frac{S_2}{S_2} \frac{e_2}{S_2}$$

$$\frac{S_2}{S_2} \frac{e_2}{S_2} \frac{e_2}{S_2} \frac{e_2}{S_2}$$

$$\frac{S_2}{S_2} \frac{e_2}{S_2} \frac{e_2}{S_2}$$

$$\frac{S_2}{S_2} \frac{e_2}{S_2} \frac{e_2}{S_2}$$

<u>e</u> 2

6,

s_

S 1

s, e,

$$0.000 \frac{1}{2} \rightarrow \frac{3}{5} \leftarrow \frac{1}{6} \rightarrow \frac{1}{2} \rightarrow \frac{1}{1}$$

Interval [] = & (0,2), (1,4), (5,6), (6,8), (3,10), (8,9), (12,14) }

Cum	mest Available	lagues m reet 24	final ans
(0-2)	(1,4)	(11,0)	_
(0-4)	(5,6)	_	(11.0)
(5,6)	(6,8)	(5, %)	(0,4)
(5,81	(3,107	(5110)	(0,4)
(5,101	(8,8)	(5,10)	(0,4)
(5,107	(12,14)		(0,4),(5,10)
(12,14)	_		(1511A)] (1011)

int [] any ___ int, ______ and____ and____ and_o___.e

```
Internal [] aux; (1 Criven
list < Internal > ans;
com_ stant = aurros. 8, coursend = arros.e
  for (1=1; 1 < m', 1++) &
        if (aut [1], & <= cum_end) & //averlap
                 11 meuge
               cuevy_end = more ( cuev_end,
                                  am (i'j.e),
           elme &
              Internal temp ( arent stant, and End);
               ans. push_ back (temp)',
               cuer_slow- arm (i'7.8')
                au (1,3 . e.)
Interval temp ( arent stant, and ( ord)
ons. push_ back (temp)',
  sueteren ons;
            T.C-> O(m)
             S.C-3 O(1)
        Break 10: 10pm - 10: 20pm
```

Interval [] = \$ (0,2), (1,4), (5,6), (6,8), (4,10), (8,9)

Curr	most Available	Lefter mengal	final ans
(0-2)	(114)	(11.0	_
(0-4)	(5,6)	<u> </u>	(0,1)
(5,6)	(618)	(5,8)	(0,4)
(5,8)	(4,10)	(5110)	(0,4)
(5,101	(P , Q)	(5,10)	(0,4)
(8,10)			

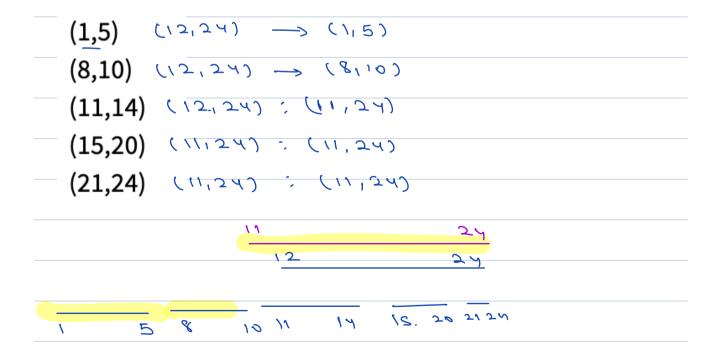
0 سع

Given a sorted list of overlapping intervals based on start time, insert a new interval such that the final list of intervals is also sorted and non-overlapping.

Print the Intervals.

N = 9	
(1,3)	
(4,7)	
(10,14)	
(16,19)	
(21,24)	
(27,30)	
(32,35)	
(38,41)	
(43,50)	

N = 9	
(1,3)	$(13^{1}3^{2}) \longrightarrow (1^{1}3)$
(4,7)	(12,22) -> (4,7)
(10,14)	
(16,19)	(10,55): (10,55)
(21,24)	
(27,30)	(10124) ->(10124)
(32,35)	
(38,41)	
(43,50)	10
	12 22 21
	7 7 10 14 16 19 21 24 27 30



$\omega_{\overline{P}}$	<u></u>	
7, C3000)		(Ur
8,0000	8	<u>e</u>
(ms, me) -> new	louis toni c	
for (i=0; i <n; i++)="" td="" {<=""><td></td><td></td></n;>		
mi sheeptas in	teenal (13)	
/mon Overlapp	ing	
+mID < & m) bi		
bunt	(lowestm2))
_3		
else if (cInt	ternal. 2>mE) {
beint	(wp, we);	
for(2=	ニュアンシャナ	9 (
1 Som	ething the start	J.b,
lere E	tuen',	- ((() () () ()
e12-e. g		
ms = m	in (cInternal. ?	, ms);
me = ma	· (cIntendie	, me)',
7		
frint (m g, me);		

Given an unsorted array of integers, Find first missing Natural Number.

2345-- 0

$$\{-2, 4, -1, -6, 3, 7, 8, 4, -3\}$$

$$\{1,0,-5,-6,4,2\} \longrightarrow 3$$

$$\{u,2,1,3\}$$
 $\longrightarrow 5 \Delta_{2}$

```
Observation \longrightarrow 1 to \underline{m} +1.
                Brute force
                 check all numbers from 1 to not
                for Ci=1; ix=m; i++) {
1, (so (m2).
    40/m 2:-
            Add all elements to the set and check if element(1 to N) is present or not.
                             T. C30mi
                             1.C - 0 cm
       Som 8:- low & then travel & check
                               T. C-3 Omlog ~),
```

Solm	<u> بنہ</u>	1. (> 0 m), 1. (> 0 (1)
		Keep an element into its night Perm.
		N = 5
V	ما	\ <u>\d-\alpha</u>
	<u> </u>	$m \longrightarrow m \longrightarrow m$
	J	$\rightarrow \omega^{-1} \rightarrow \omega$
	3	<u>ئ</u>
	ч	<u>3</u>
	×	×-\
	38 23 8	
(ລັ	0 1 2 3 4 5 6 7
ant	2 E8	9 1 2 3 4 5 6 7 4 2 7 6 9 8 3 4 8 7 6 7 8
i	C17 20	3
0	ч	2(auros, our 23) 2(auros, aur 53) : Let
N.	5	76 7
3	7	404: (CETIMO, CETIMO) & (COTUD, CETIMO) &
3	7	Pot
4	q	isuate.
5	9	<i>⊅6</i> 1 −
6	オ	761
7	8	7 <i>6</i> 1
		$\sim \sim$
		10 -> 10

3

1

for (1=0; 1< n; 141) & BB as> Cirus BB Or Eirro E& aum (it ! = i+1) & mot set int val= auu(i'j', (sheeped & ([-100) mo == [:] mos) }; ('(1-lov,i, me) gond

Stevale & find mining no'. for (1=0; i<n; i++) { if (aunti'7! = i+1) Juleuen m+1',

	Duplic	ale; she			
		_	, , ,		
	0 1	Z 3 0	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		
	94, <u>x</u>	, 3, 2, 2	., <u>s</u>		
	3 A	ale ; Myo	<u> </u>		
i	Cirno			T, C -> 0 M) >·C -> 0 (1)	
9	Ч				