Viggle Sort 1 turday, 4 September 2021 12:54 PM	arrange vollus s	y amay ir	rig-rag for		enplace charge-
a	m[o] < am[i] >	am[2] < am	-[8]>, am[4]	am(n-1)	
Approach - 0 Make	onte force a duplicate duplicate con	array of		2/p - b d duplicate - b	c art d c art b c d rt
(3) Fi'll 9/		a st			c d st
			\	Equality required	
Time compos	ecity— mplexity— mplexity—	(nlogn)		amfo] & amf llowed time of time - co	9(n)

possible Equalities p 25 jun; 49 0 approach-Approach -1 Indexodd Index Elemets array -s are greenter than equal to provide and next Element c>aHow previous equalitées is Even Inder odd Index unchanged. if (anti] < anti+1) } if (am[i+i] < am[i]){ Swap (am, 1, 1+1); swap (am, i, i+1); (i)mo < [iti)mp ansi]>, ansite nothing to 170thing to

3 (5) > 1 (5) > 2 (1) om[s] (am[s] > am[s] (om[s] ...

am(s) < am[s) > am[s] > am[s] > am[s] > am[s] ...

if (am[i] < am[it]) ?

Swap.(am.i, i'ei);

1 else ;

[/ Notwig todo

Revoise 8 orsted and contain dupliculg. —

Even Indiso

if (am [i]> am [iti])?

Swap(am, i, i'ti)

I else ?

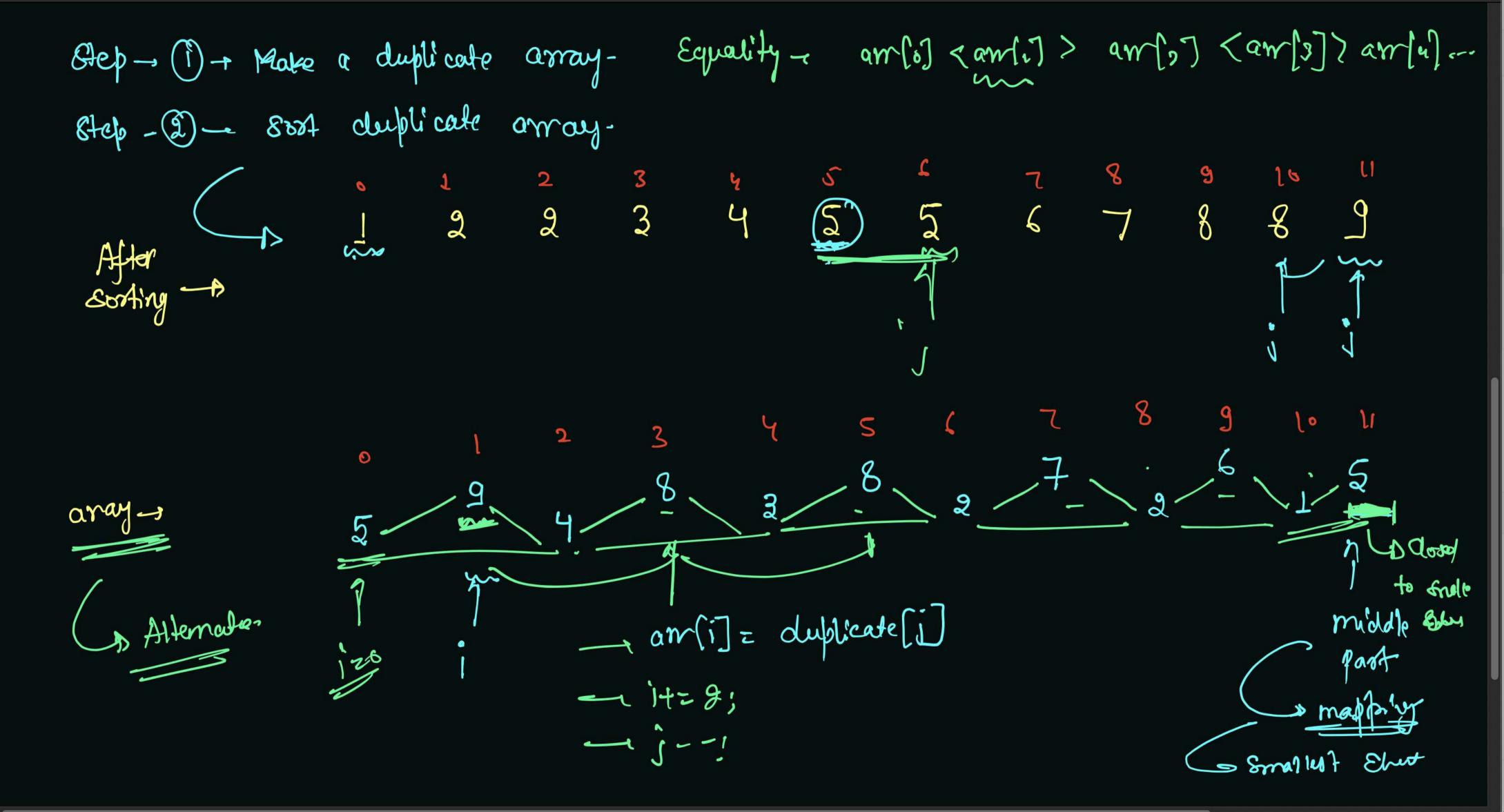
(/Mothing to do

S

heady. - 4 5 5 2 3 5 4 2 2 5 3 5 1 5 1 5 1 6 1

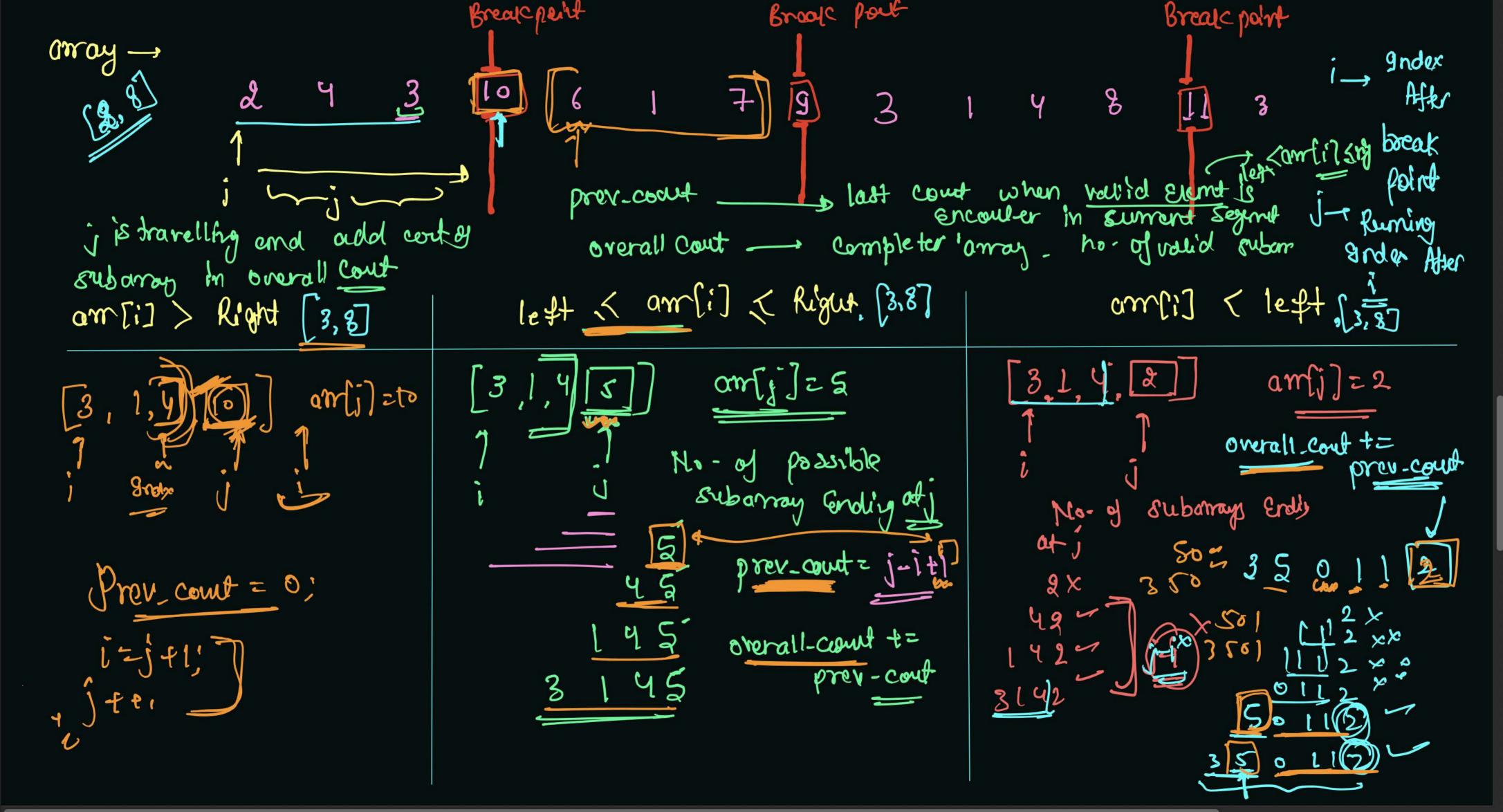
Wiggle sort 2 Saturday, 4 September 2021 7:17 PM	- Hime - Space -	o(nlogn) o(n)		
Steps. 3) Place first and Hist et, Low	am[o] < anv[i] > aftersorting	am[2] < am[1 1 1 1 1 9	3 8 4 7	T B G Some Element
Lihat No	10 8est, @	<u></u>	mod Rigard pointer,	

Wiggle sort 2



Number of Subarray	With Bounded Maximum	1 . 9	"glut 3
Saturday, 4 September 2021 7:56 PI	M Let	+ - 2 ~ ~	
amay -	2 1 4 3 max of subary	Total no- of	Subarray = $\frac{n(n+1)}{2}$
all possible	- (g)		= XX5 = (6)
suba may	2 1 ———————————————————————————————————		
	g L 4 4x		
	2 1 4 3 — e 4 x		Mo- of subarrays such there
	9 1 1 7		Max of subarray is in Range
	→ J [*]	Answer -	
	1 y	40	[leit, Right]
	<u> </u>		7
	1 4 3 <u> </u>		gnoluded
	-4 - 4 ×	िश्चे.	[2.1] [8]
	_43 4 s		
	3		3

no- of possible suborry Stgrifconnce of j 8 left to 为53。 left prévious courd -> prev [3,1,4] consider array part from i to jt Erding C court ots corerall court of count Case 111 -3 Extotal no- of subarray having Prove East = (2) mare in hange.



```
prev-court = of 2! X & X & Z & 1
```

```
Overall_bout=8 3/ A N 15 15 28 24.28 28 29 29

9rdb 8 9rdb 9

1 3, 8]

[ 3, 8]
```

```
gray7
                           oran T
                  gndy s'
       gnday
                                    50112
                           5011
                     801
                                   350112
          350
                  3501
                           35011
                                 2350112
235
                23501
                          235011
                123501 1235011 12350 112
       12350
```

```
int prev_count = 0;
int overall count = 0;
int i = 0;
int j = 0;
while(j < nums.length) {</pre>
    if(left <= nums[j] && nums[j] <= right) {</pre>
        prev_count = j - i + 1;
        overall_count += prev_count;
    } else if(nums[j] < left) {</pre>
        overall_count += prev_count;
    } else {
        prev_count = 0;
        i = j + 1;
    j++;
return overall_count;
```

