

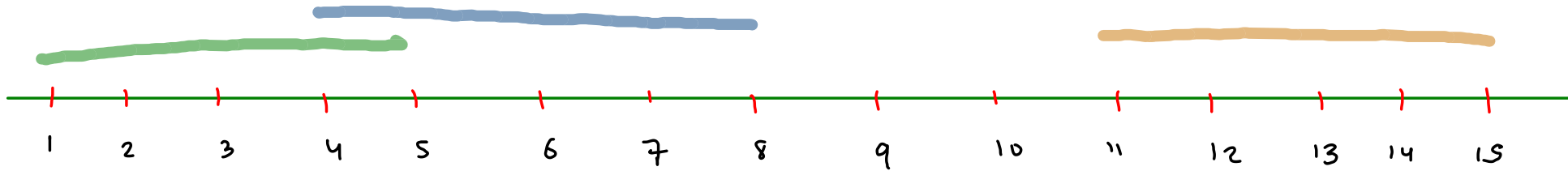
1094. Car Pooling

trip \rightarrow [from, to, no. of passengers]

```
trip[] = [[1,5,2],[4,8,1],[11,15,3]]
```

```
passengerCapacity : 3
```

```
output : YES
```



1-4 \rightarrow 2

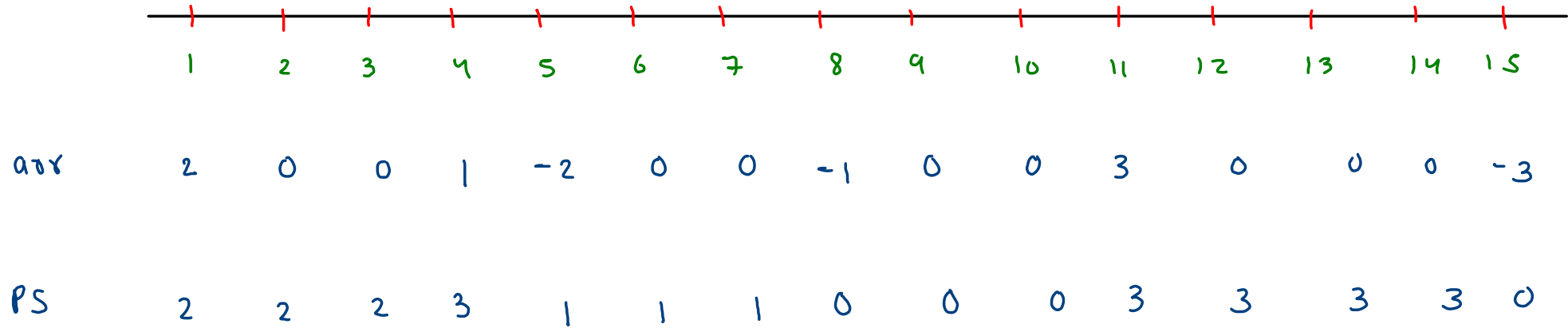
4-5 \rightarrow 3

5-8 \rightarrow 1

11-15 \rightarrow 3

Range addition

```
trip[] = [[1,5,2],[4,8,1],[11,15,3]]  
passengerCapacity : 3  
output : YES
```



556. Next Greater Element III

Given a positive integer n , find the *smallest integer* which has exactly the same digits existing in the integer n and is greater in value than n . If no such positive integer exists, return -1 .

Note that the returned integer should fit in **32-bit integer**, if there is a valid answer but it does not fit in **32-bit integer**, return -1 .

$n = 132$

1 3 2
1 2 3
2 1 3
2 3 1
3 1 2
3 2 1


$n = 4321$

ans = -1

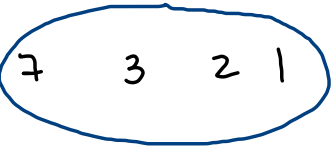
5 6 ~~3~~ 7 ~~4~~ 2 1

4 3

i



5 6 4 7 3 2 1



5 6 4 1 2 3 7

680. Valid Palindrome II

Easy

👍 3808

💬 230

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Given a string `s`, return `true` if the `s` can be palindrome after deleting **at most one** character from it.

opr = 0, 1

a b c d e d g c b a
~~i~~ ~~i~~ ~~j~~ i j ~~j~~ ~~j~~

if delete i^{th} char

→ $(i+1)$ to j pal

if delete j^{th} char

→ i to $j-1$ pal.

Wiggle Sort 1

2. Reorder it in-place such that : $\text{arr}[0] \leq \text{arr}[1] \geq \text{arr}[2] \leq \text{arr}[3]$

indexes 0 \leq 1 \geq 2 \leq 3 \geq 4 \leq 5

Input: [3, 5, 2, 1, 6, 4]

Output: [1, 6, 2, 5, 3, 4]

 c b
a \leq ~~b~~ \geq ~~c~~ d e j
0 1 2 3 4 5
 i

a < b

b < c

odd index

is greater or
equal with
left & right

if ($\text{arr}[i] < \text{arr}[i+1]$) {
 swap (i, i+1);

}

even index

is smaller or equals
to left &
right.

if ($\text{arr}[i] > \text{arr}[i+1]$) {
 swap (i, i+1);
}

Input: [3, 5, 2, 1, 6, 4]

```
for(int i=0; i < arr.length-1;i++) {  
    if(i % 2 == 1 && arr[i] < arr[i+1]) {  
        swap(arr,i,i+1);  
    }  
    else if(i % 2 == 0 && arr[i] > arr[i+1]) {  
        swap(arr,i,i+1);  
    }  
}
```

3₀ ≤ 5₁ ≥ 1₂ ≤ 6₃ ≥ 2₄ ≤ 4₅

Wiggle Sort 2



● Easy

< Prev

> Next

1. Given an integer array 'arr'.
 2. Reorder it such that $\text{nums}[0] < \text{nums}[1] > \text{nums}[2] < \text{nums}[3] \dots$
 3. You may assume the input array always has a valid answer.
- Note : You can return answer in any order.

index 0 < 1 > 2 < 3 > 4 < 5

Input: nums = [1,5,1,1,6,4]

after sorting

a	b	c	d	e	f
0	1	2	3	4	5

$a < b < c < d < e < f$

ans:

c	f	b	e	a	d					
0	<	1	>	2	<	3	>	4	<	5


```
//odd indexes
```

```
int i = 1;
```

```
int k = n-1;
```

```
while(i < nums.length) {
```

```
    res[i] = nums[k];
```

```
    i += 2;
```

```
    k--;
```

```
}
```

```
//even indexes
```

```
i = 0;
```

```
while(i < nums.length) {
```

```
    res[i] = nums[k];
```

```
    i += 2;
```

```
    k--;
```

```
}
```

arr

a	b	c	d	e	f
---	---	---	---	---	---

0

1

2

3

4

5

k

~~k~~

~~k~~

~~k~~

~~k~~

res

c	f	b	e	a	d
---	---	---	---	---	---

0

<

1

>

2

<

3

>

4

<

5

```
//odd indexes
```

```
int i = 1;
```

```
int k = n-1;
```

```
while(i < nums.length) {
```

```
    res[i] = nums[k];
```

```
    i += 2;
```

```
    k--;
```

```
}
```

```
//even indexes
```

```
i = 0;
```

```
while(i < nums.length) {
```

```
    res[i] = nums[k];
```

```
    i += 2;
```

```
    k--;
```

```
}
```

arr

a	b	c	d	e	f	g
0	1	2	3	4	5	6

res

d	g	c	f	b	e	a
0	1	2	3	4	5	6