

Yet : Map

↓ ↓

= =

arr = [1, 2, 3, 4, 5]

const mySet = new Set(arr)

{ [1, 2, 3, 4, 5]
[1, 2, 3, 4, 5] }

Set
↳ unique values
Primitive/
Object

arr = [1, 2, 3, 4, 5, 5, 5, 1, 2]

mySet = new Set(arr)

[1, 2, 3, 4, 5]

Smallest → 0
highest → n-1

arr = [1, 2, 5, 10, 3, 4]

OP = [0, 1, 4, 5, 2, 3]

1 - 0
2 - 1
5 - 4
10 - 5
3 - 2
4 - 3

orig { 1, 2, 5, 10, 3, 4 }

temp array { 1, 2, 3, 4, 5, 10 }

count = 0

key - value

1 - 0
2 - 1
5 - 4
10 - 5
3 - 2
4 - 3

map {
 get
 get

```
function ConvertToReduce(arr){  
  //copy original array to temp  
  let temp = [...arr];  
  
  //sort array  
  temp.sort((a,b)=>a-b);  
  
  //create empty map  
  let convertMap = new Map();  
  
  let counter = 0;  
  
  //traverse through (parameter) arr: any lng number and values  
  for(let i = 0; i < arr.length; i++){  
    convertMap.set(temp[i], counter++);  
  }  
  
  //traverse through my map and store value to corresponds to original array el  
  for(let i = 0; i < arr.length; i++){  
    arr[i] = convertMap.get(arr[i]);  
  }  
  
  let arr = [1,2,5,10,3,4]  
  ConvertToReduce(arr);  
  console.log(arr)  
}
```

Map

key value

1 0
2 1
3 2
4 3
5 4
10 5

get C[i] // 0

1 - 7
2 - 2
3 - 2
4 - 2
5 - 2

Q = [1, 2, 2, 3, 7]

logic

map

1 → 1 } 2 k = 1

1 2 2 3 7

2 - 2

1 2 3 3 7

2 ≤ 2 } true

1 2 3 4 3 7

2 ≤ 3 } arr[i] - arr[i-1] + 1

3 - 2 + 1

1 2 3 4 5 7

3 ≤ 4 } true

1 2 2 3 7

1 - 1
2 - 1
3 - 1
4 - 1
5 - 1

arr[i] ≤ arr[i-1]

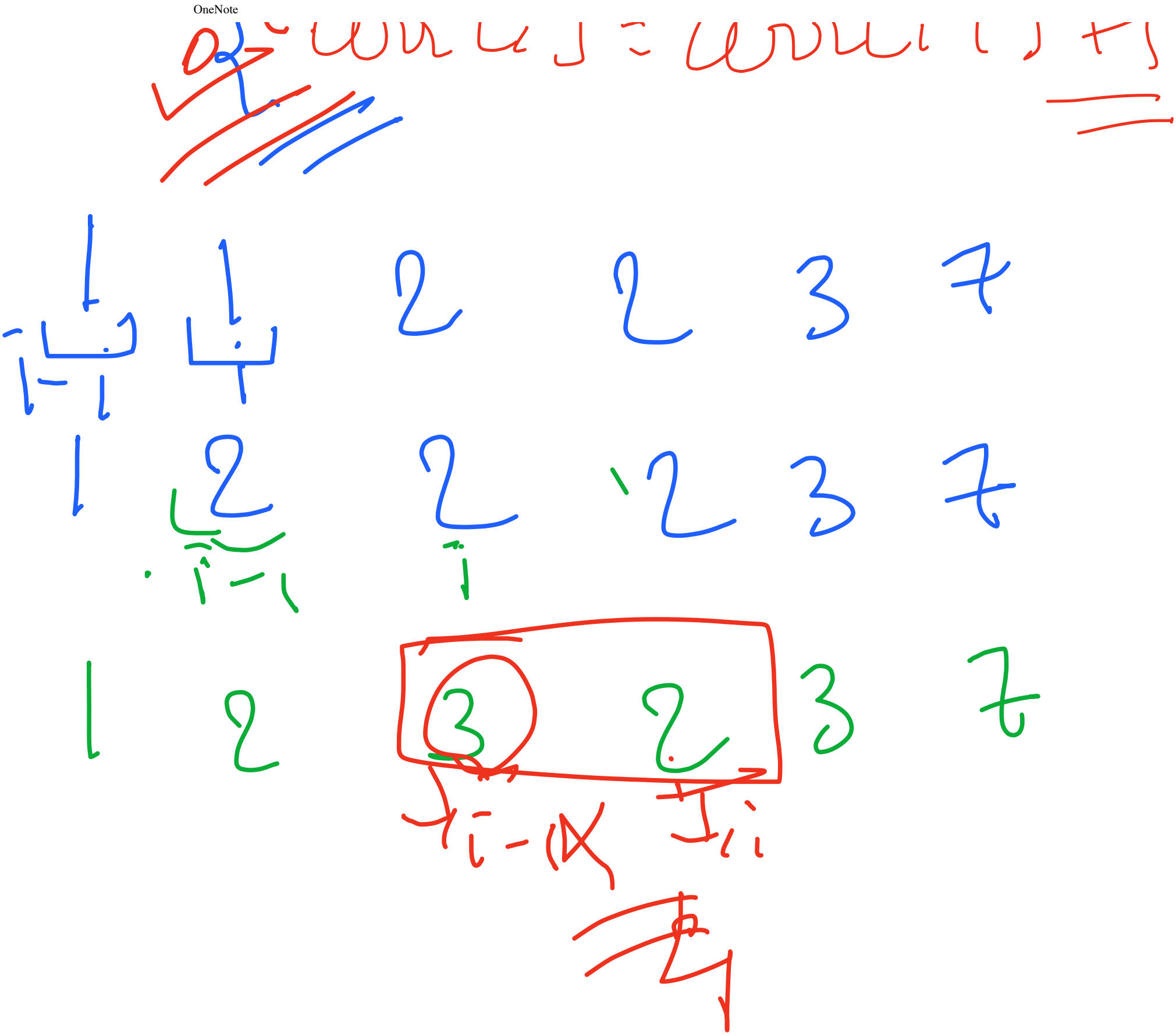
then
count = count + 1



$2+2+1+1 \} \Rightarrow 4$

$4 = 3 + 1 \} H=2$

$3-2+1$



Counter = Counter