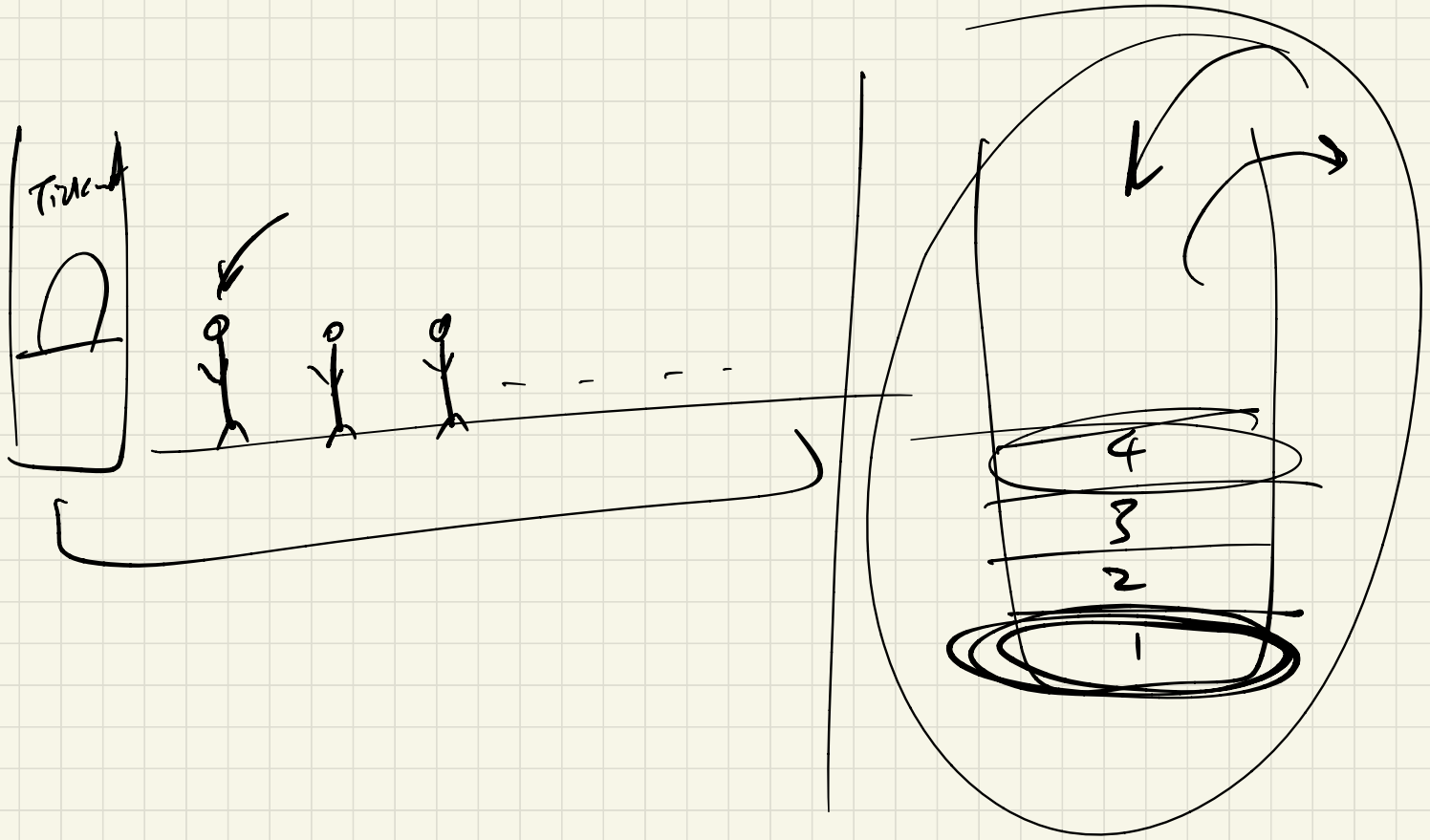
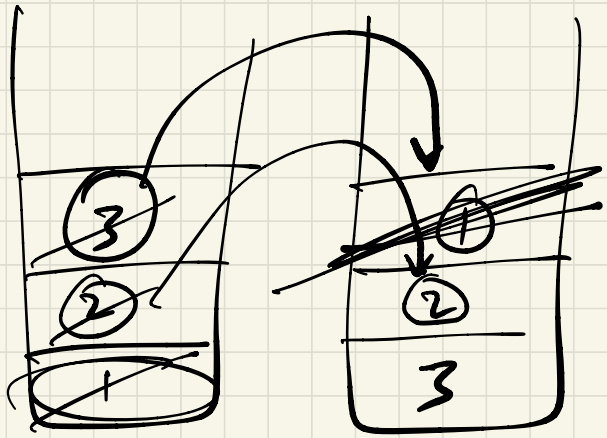

Time
4
3
2
1



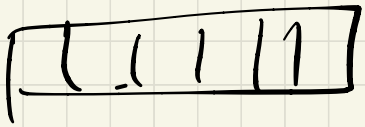
first (main)

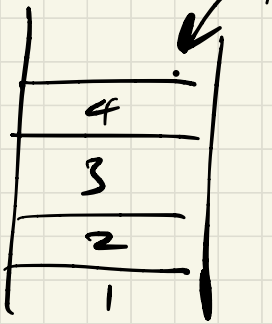
second

```
add ( ) {
    insert in first;
}
```

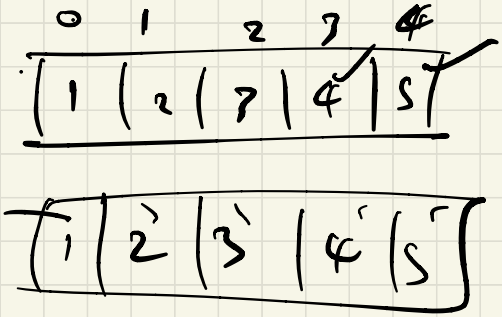
Queue

FIFO



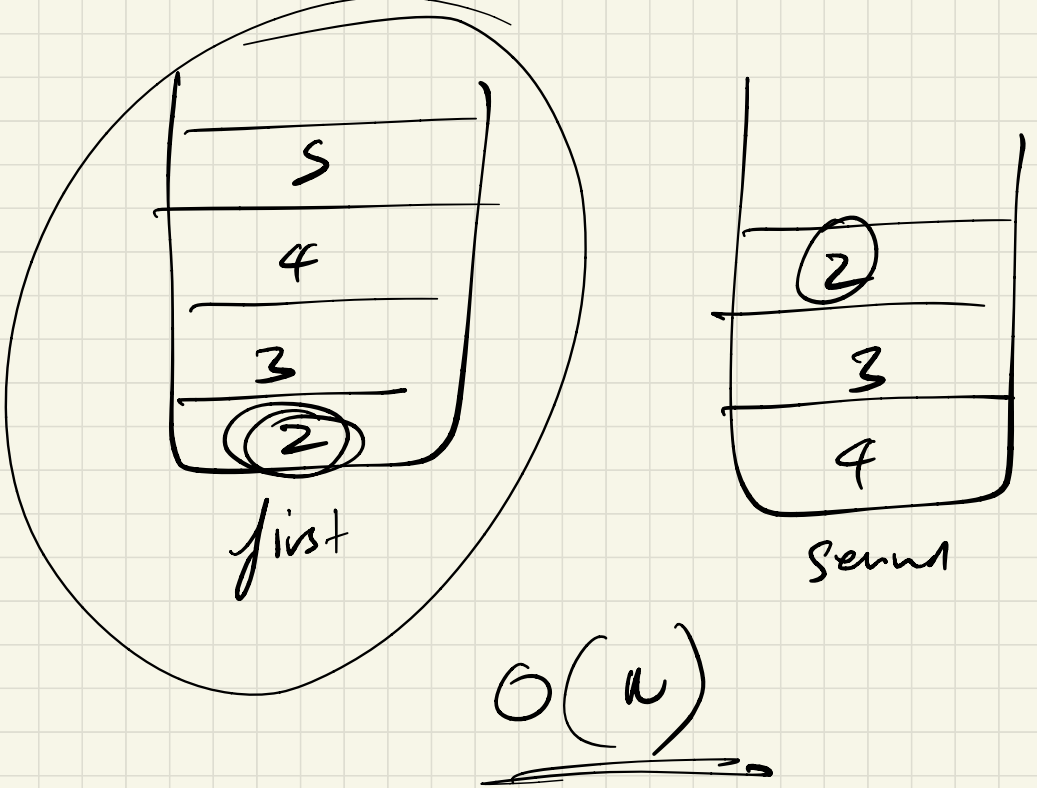


counter



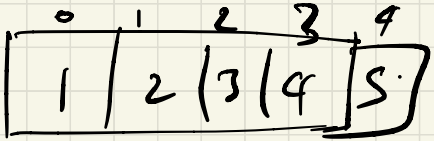
S

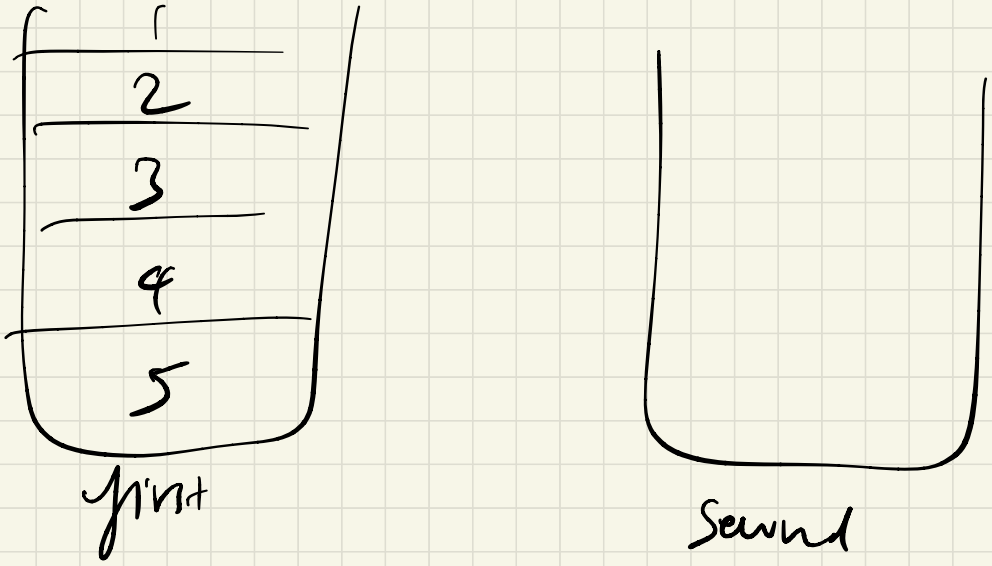
Q



$O(n)$

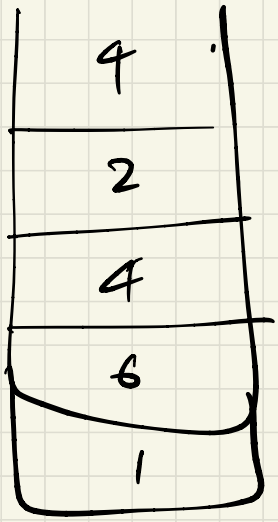
Remove efficient

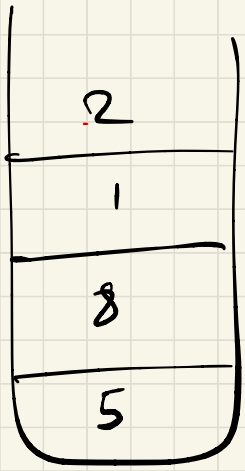




O(1) // removal

O(n) // insert





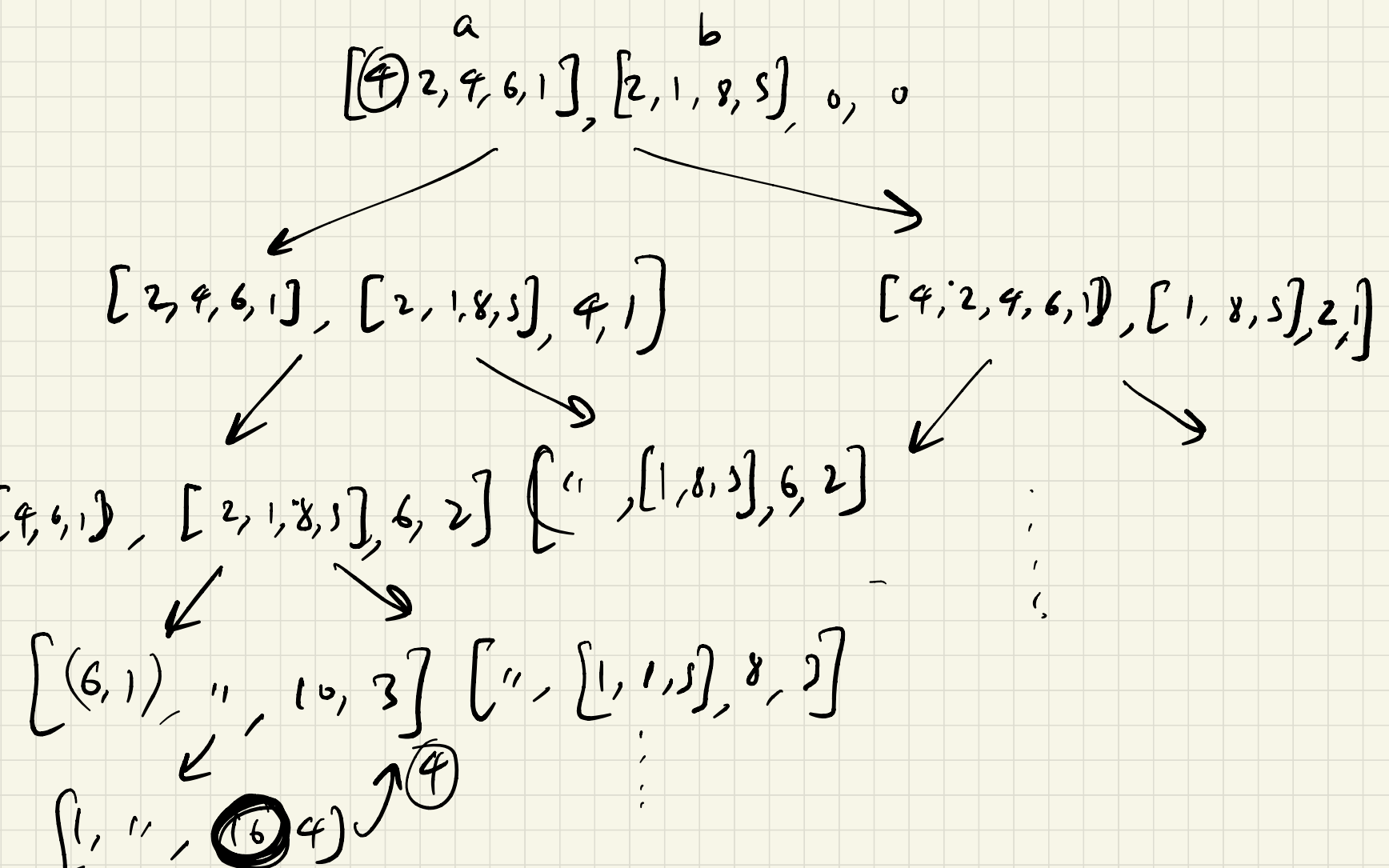
4 + 2 + 2 + 1

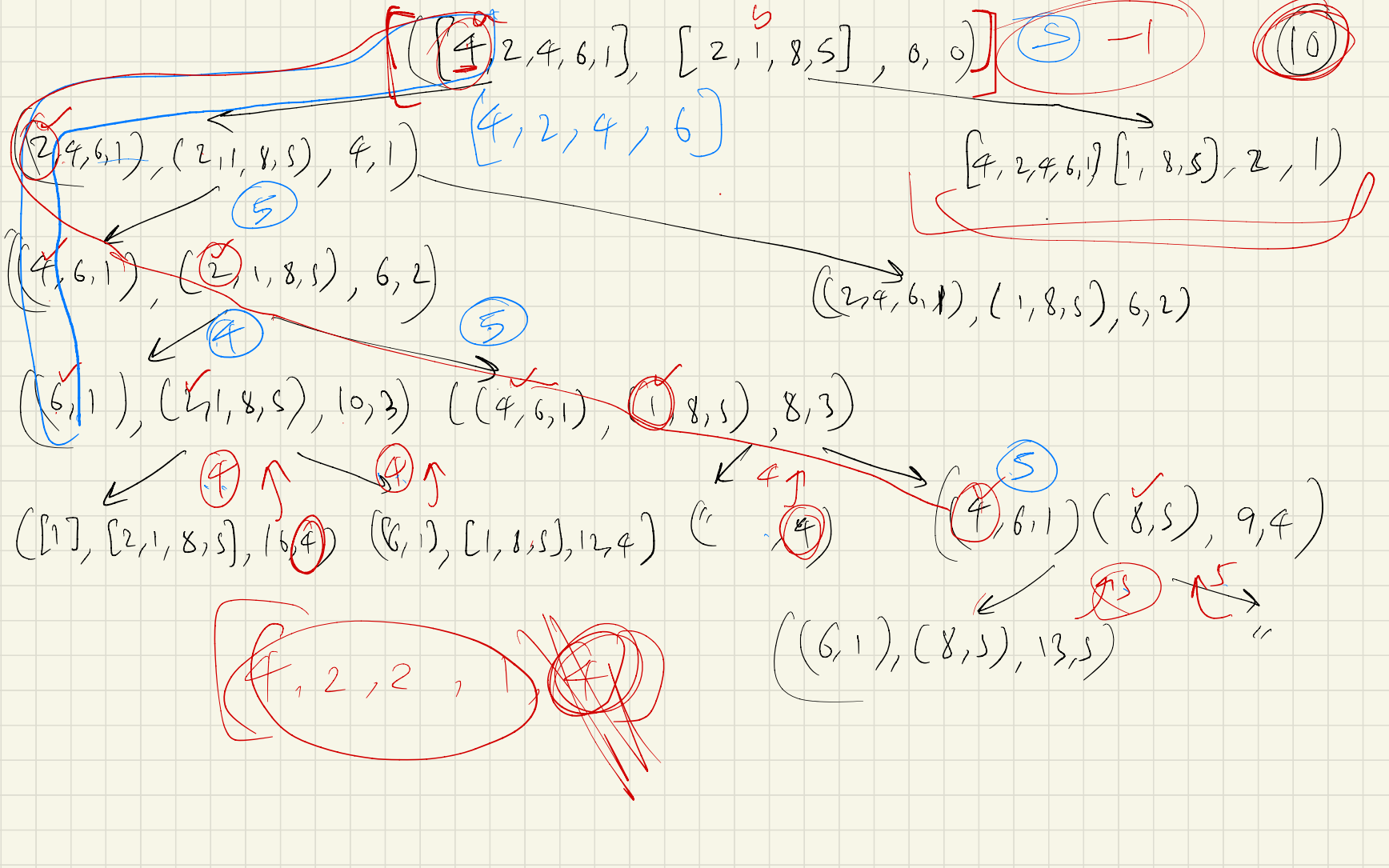
④

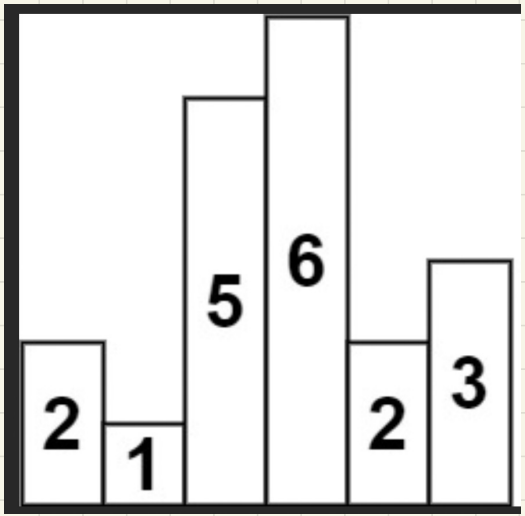
([4,2,4,6,1], [2,1,8,5], 0, 0)

([2,4,6,1], [2,1,8,5], 4, 1)

([4,2,4,6,1), [1,8,5], 2, 1)


a
b
[4 2, 4, 6, 1], [2, 1, 8, 5], 0, 0
[2, 4, 6, 1], [2, 1, 8, 5], 4, 1
[4, 2, 4, 6, 1], [1, 8, 5], 2, 1
[4, 6, 1], [2, 1, 8, 5], 6, 2
[(6, 1), '', 10, 3]
[1, '', (16) 4)
4





5 10 1 max till each index

till 1 → 2

till 2

2 2

max

2

till 3

5 3 2

till 4

6 10 4 2

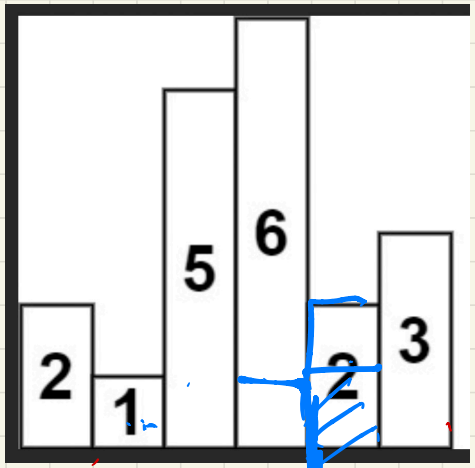
Ans 10

till 6

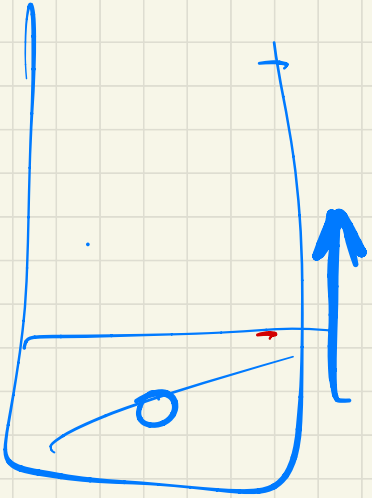
3 8 6 10 6 6

till 5

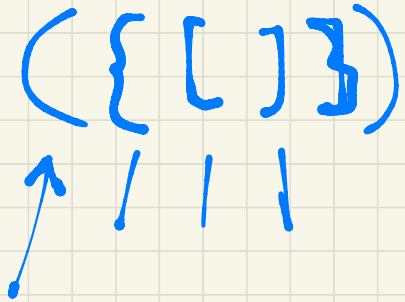
6 10 5 2

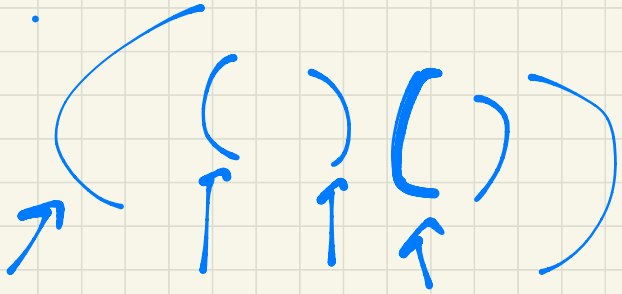


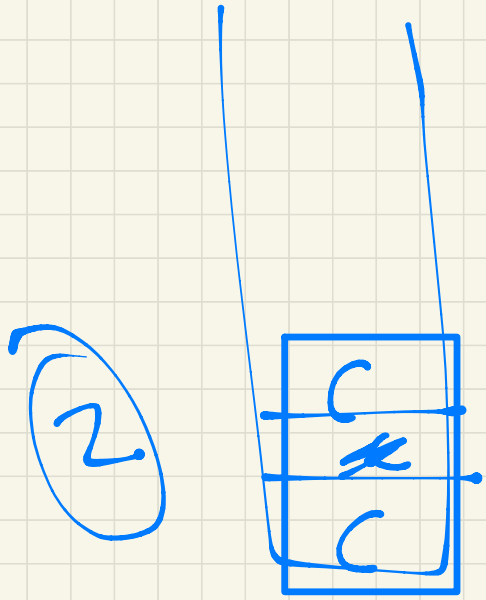
i	max
1	0
2	2
3	6
4	10
8	6



$$2 * (5 - 1) =$$






2
C
C