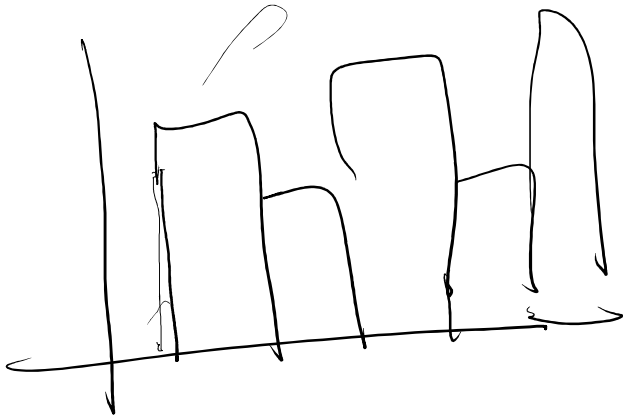
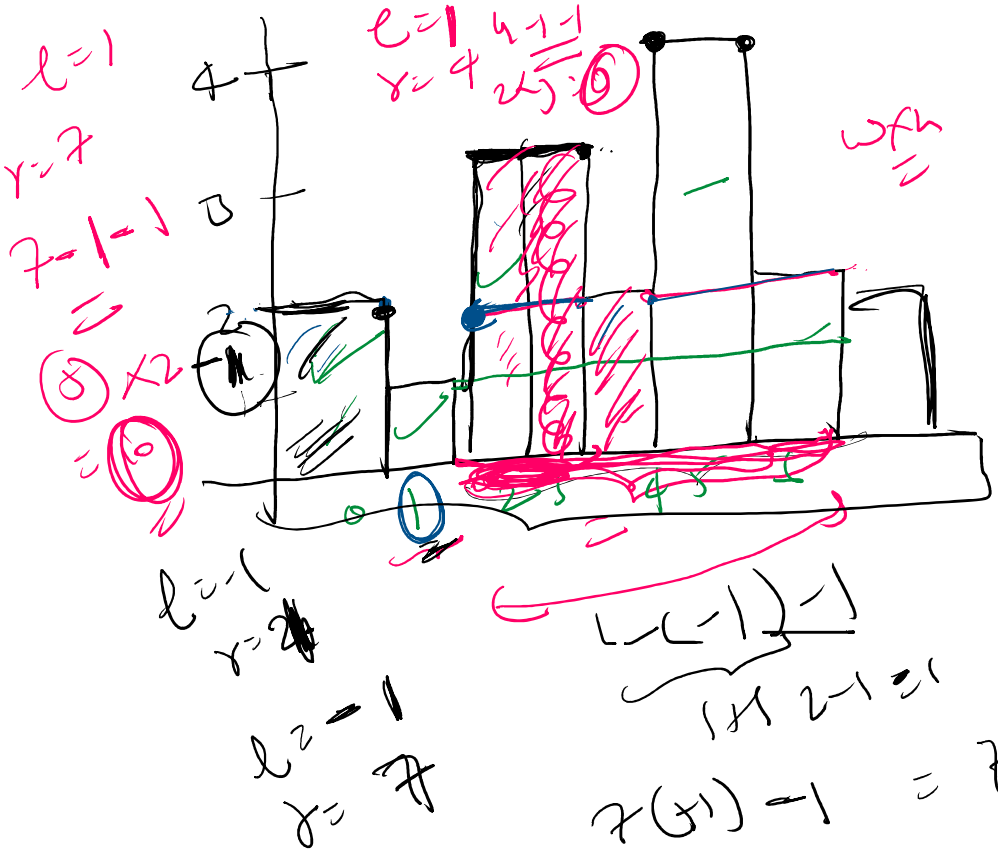
3.12 - Stacks - 3

Wednesday, July 30, 2025 9:08 PM

Largest Histogram area





B1 1×2 = 2

B2: 1×7 = 7

B3: 2×3 = 6

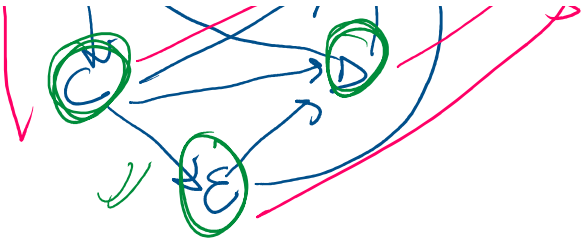
B4: 2×3 = 6

B5: 2×5 = 10

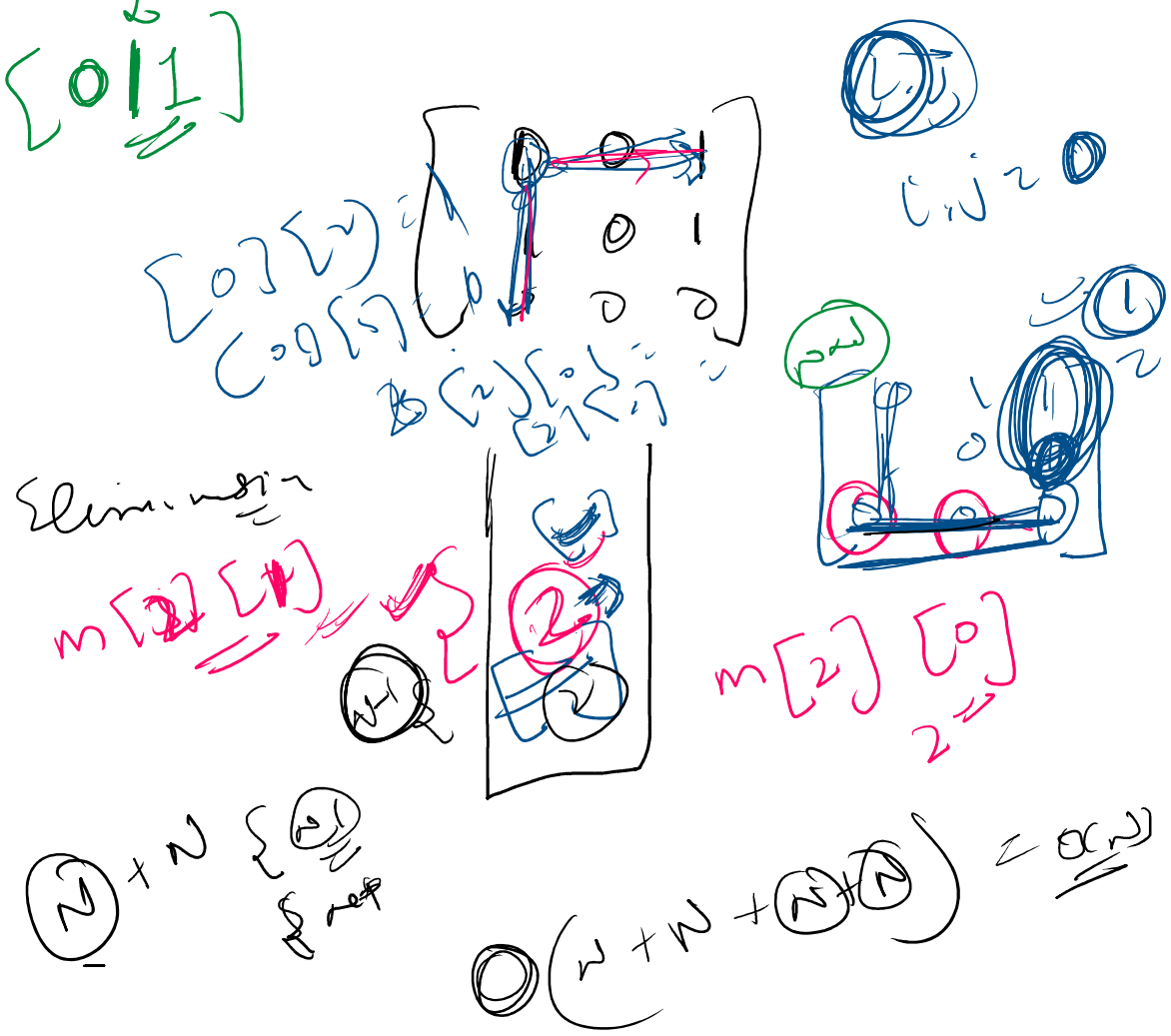
B6: 1×4 = 4

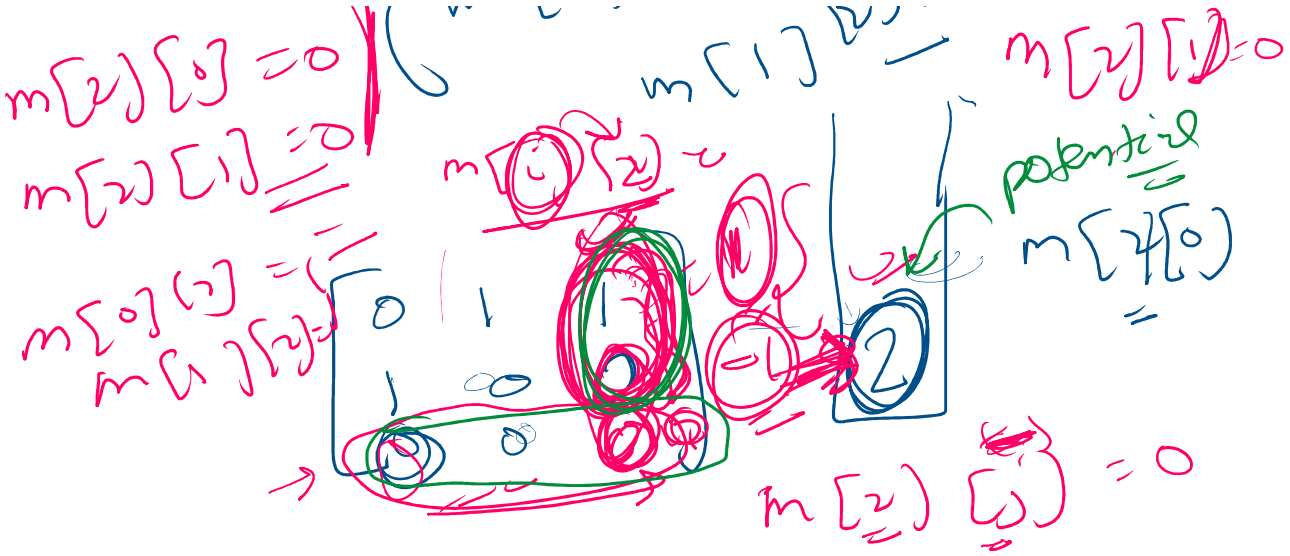
B7: 2×5 = 10

Celebrity problems

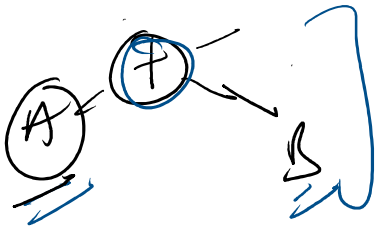


(P) At most one

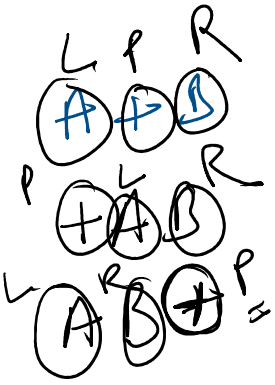




Infix, Prefix, Postfix



Infix
Prefix
Postfix



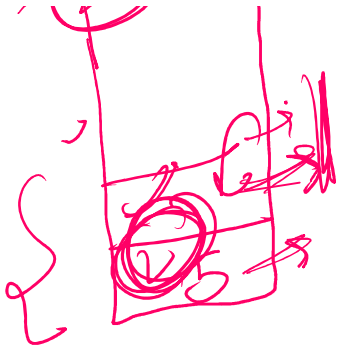
[10 + 5 − 3] [*10 5]

[Infix → Postfix/Prefix]

Postfix

Postfix:

24/8

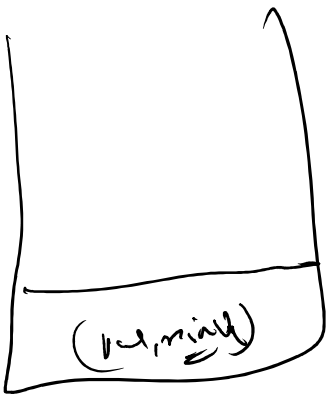


op1 = (2)
op2 = (8)
op1 = 5.
op2 = 3

#

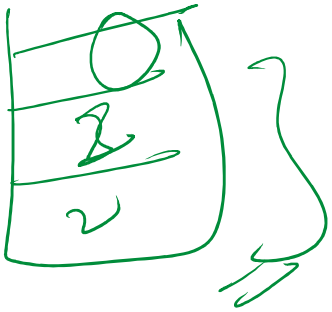
class = user defined data type

```
class pair {
    int val;
    int minVal
}
```



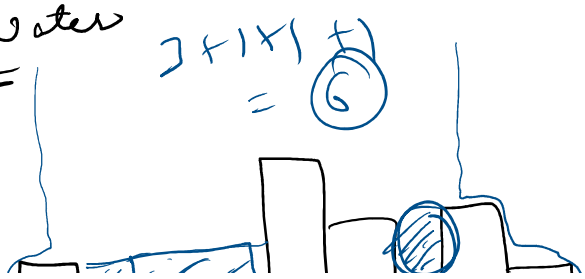
push (2)

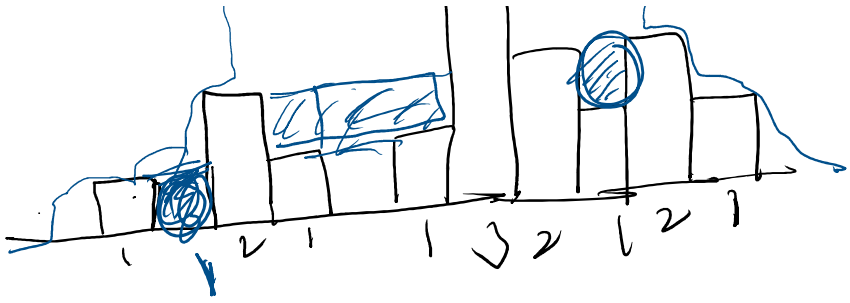
(1) push

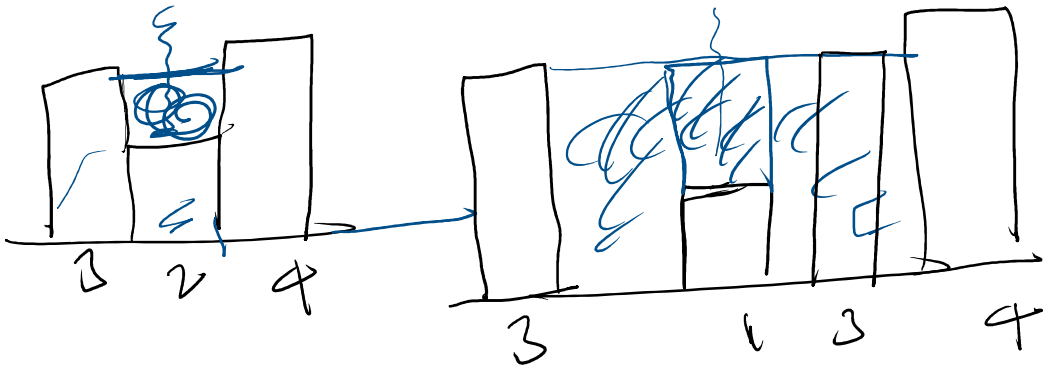


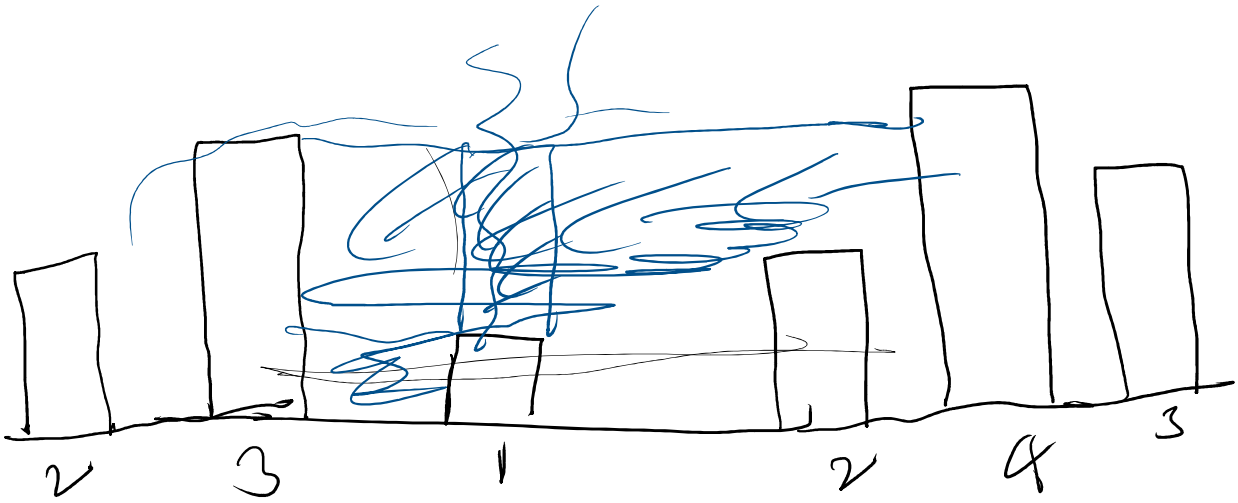
mark = 2 x

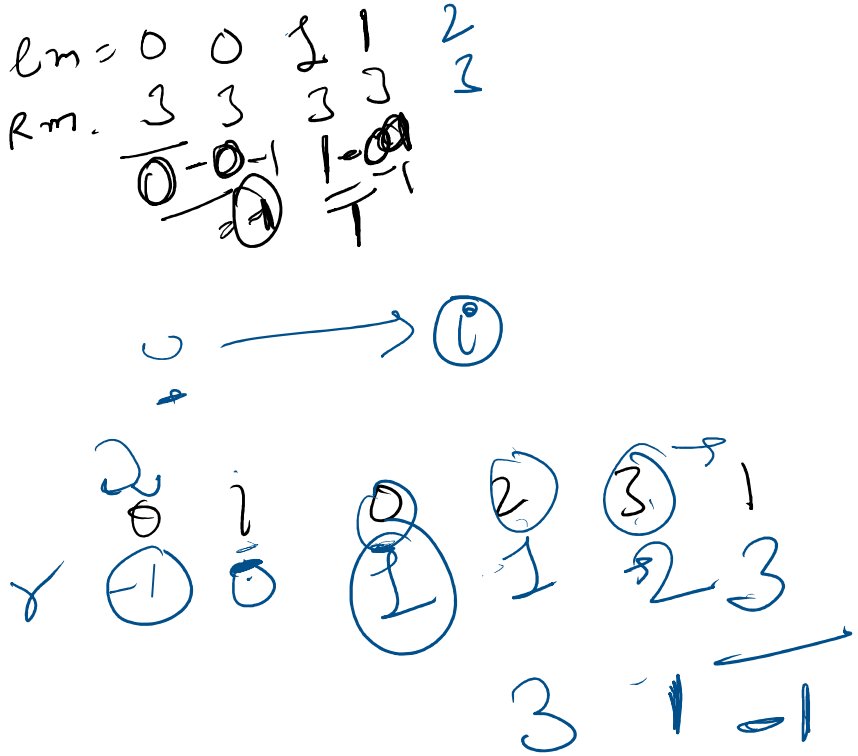
Trapping Rain Water











Comparator / Lambda function

Arrays.sort(arr)

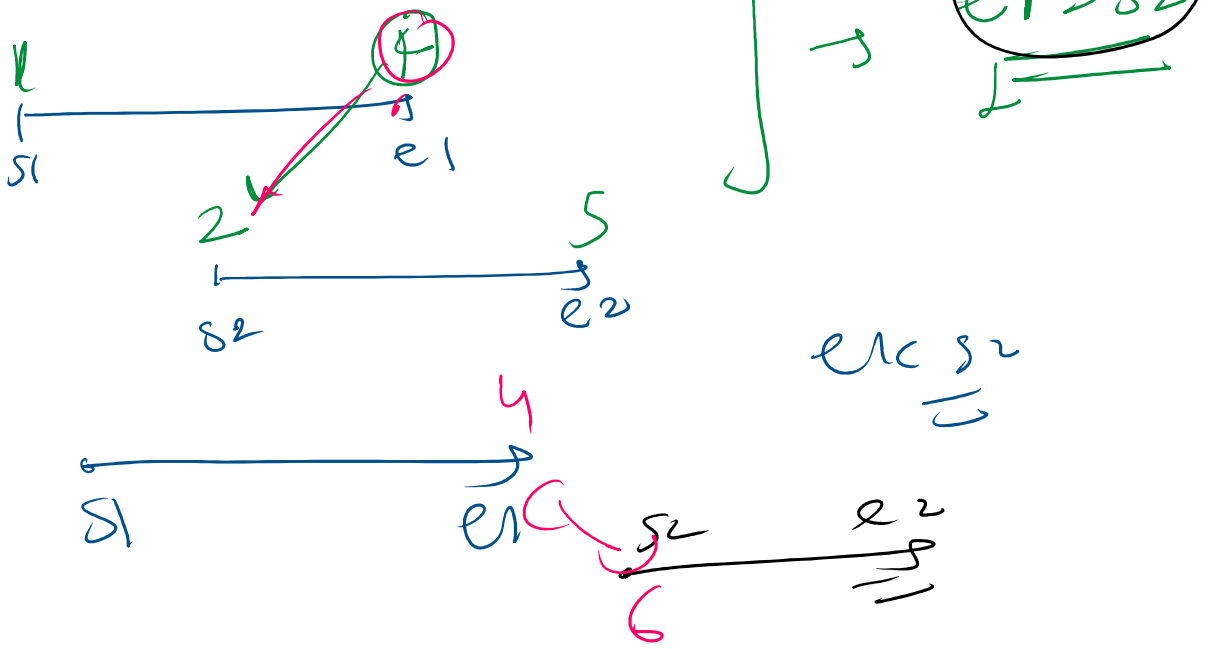
* Used to write our own custom sorting logic

→ Arrays.sort(arr, (a,b) → (a-b<0))

any two elements of the arr

Overlapping Intervals

Overlapping Intervals



Sum of Subarray Minimums