Class 08

Thursday, June 10, 2021 9:55 PM

1) $L \rightarrow \{\phi\}$

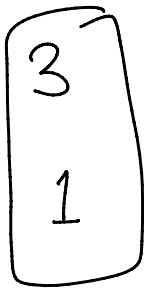
2) 0 1 $\rightarrow L \rightarrow \{1, \phi\}$

3) 0 2 $\rightarrow L \rightarrow \{2, 1, \phi\}$

4) 0 3 $\rightarrow L \rightarrow \{3, 2, 1, \phi\}$

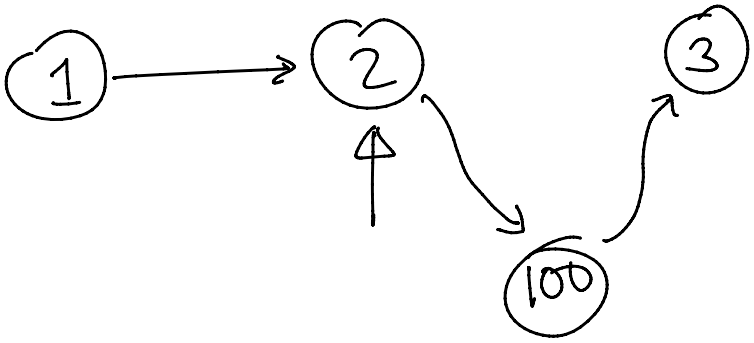
5) 1 1 $\rightarrow L \rightarrow \{3, 2, 1, \phi\}$

6) 2 $\rightarrow L \rightarrow \{3, 1, \phi\}$



list<int> ← doubly linked list

advance(iter)

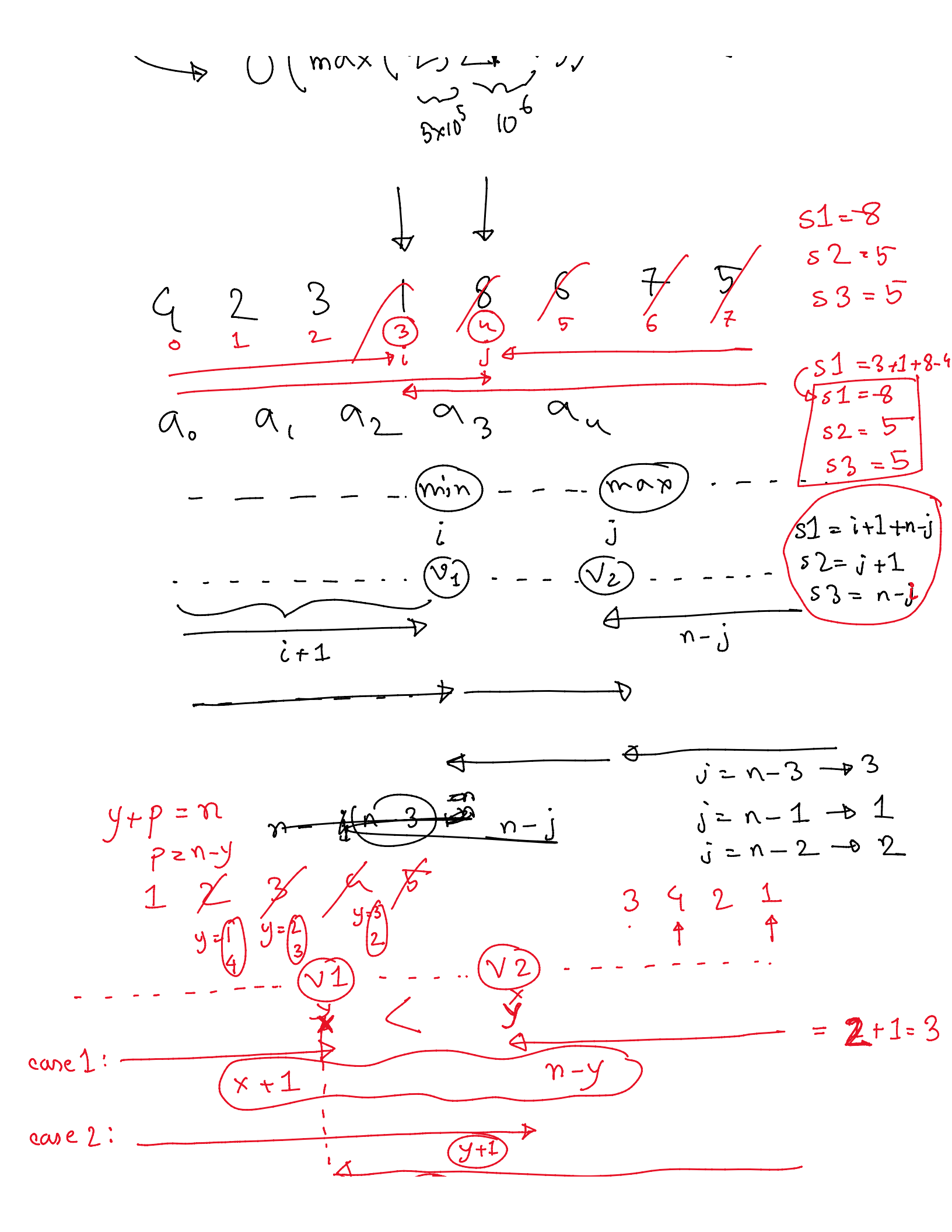


$O(\sum |d|)$ ← move

$O(q)$ ← insert/delete

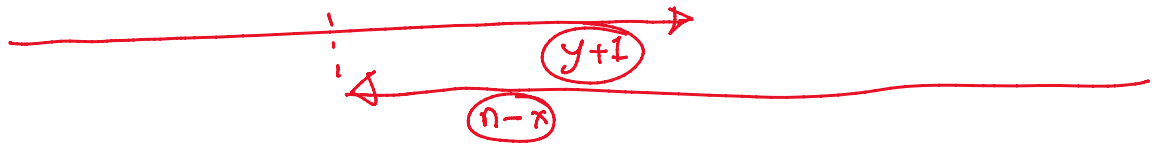
↳ $O(\max(q, \sum |d|)) \rightarrow O(\sum |d|)$

q, b


O(max(
5x10^5
10^6
4 2 3 8 6 7 5
0 1 2 3 4 5 6 7
i
j
a0 a1 a2 a3 a4
s1 = 8
s2 = 5
s3 = 5
s1 = 3+1+8-4
s1 = 8
s2 = 5
s3 = 5
min
max
i
j
v1
v2
i+1
n-j
s1 = i+1+n-j
s2 = j+1
s3 = n-j
j = n-3 → 3
j = n-1 → 1
j = n-2 → 2
y+p = n
p = n-y
1 2 3 4 5
y = 1 4
y = 2 3
y = 3 2
3 4 2 1
v1
v2
x
y
= 2+1 = 3
case 1:
x+1
n-y
case 2:
y+1

case 2:

case 3:

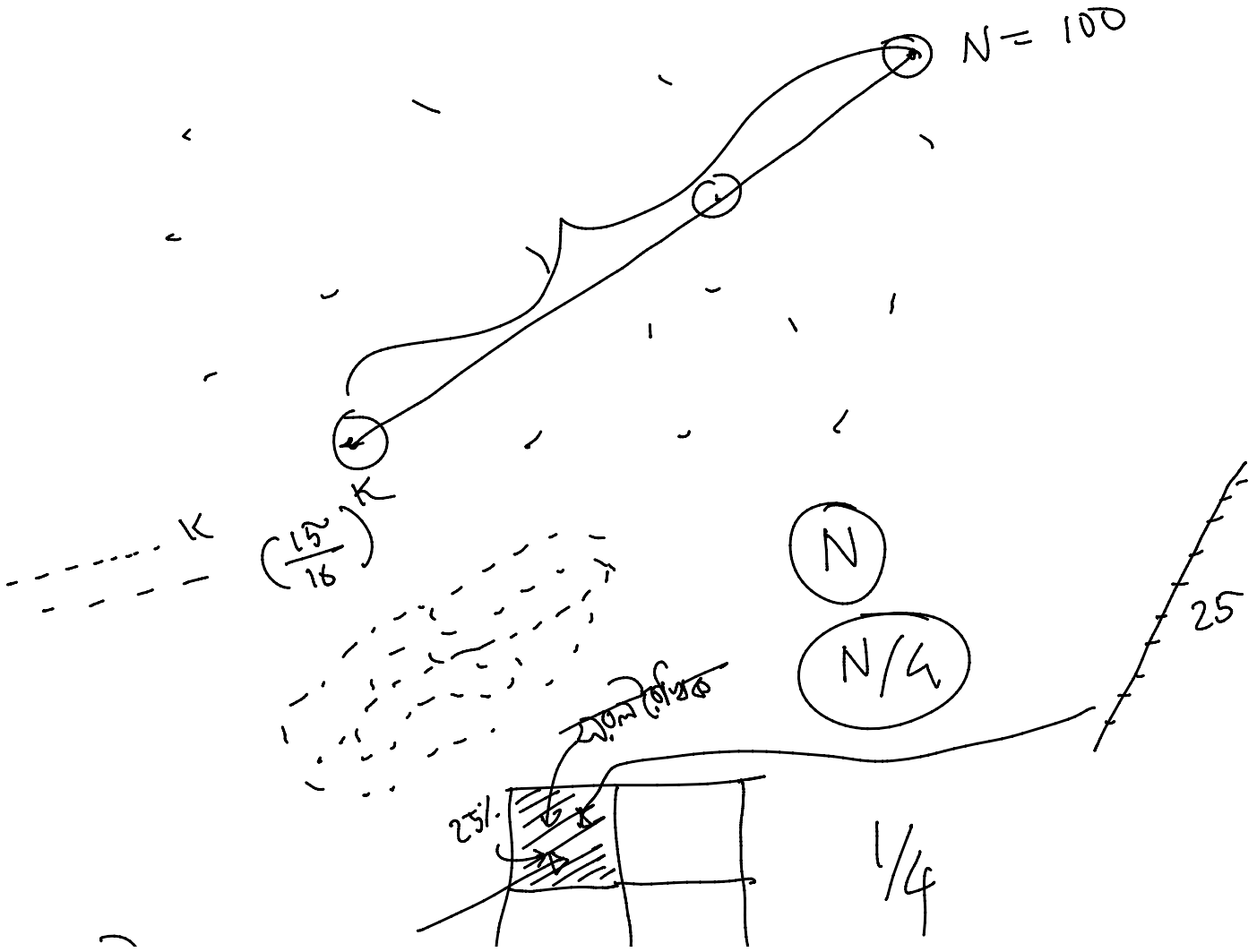


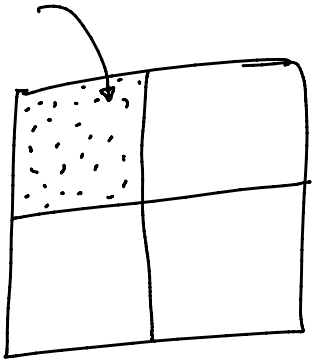
$$f(x) = (x^3 - 5x^2 + 9557)\% (x^2+13)$$

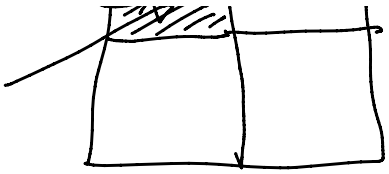
↑ seed

$(1 \sim 100) \rightarrow R$

$\frac{1+100}{2} = 50$ 50 = expected value(R)







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