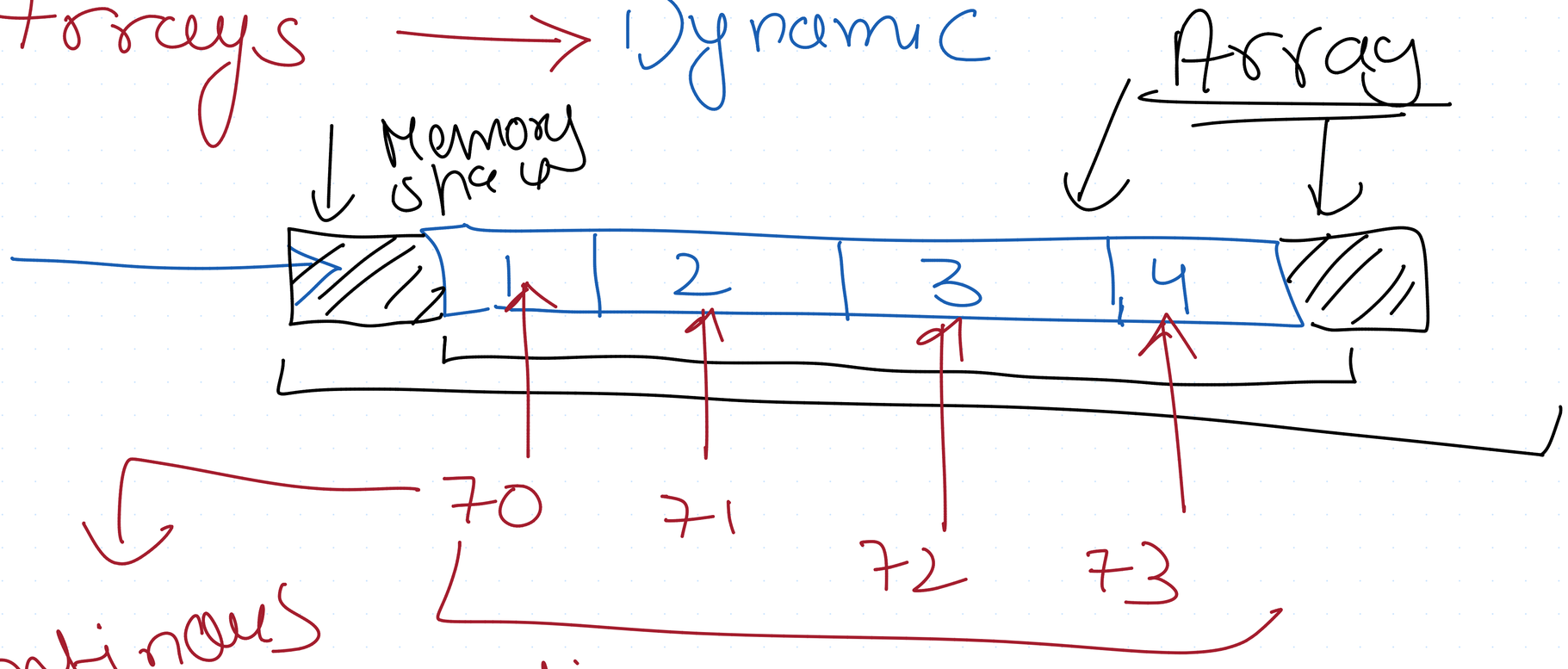
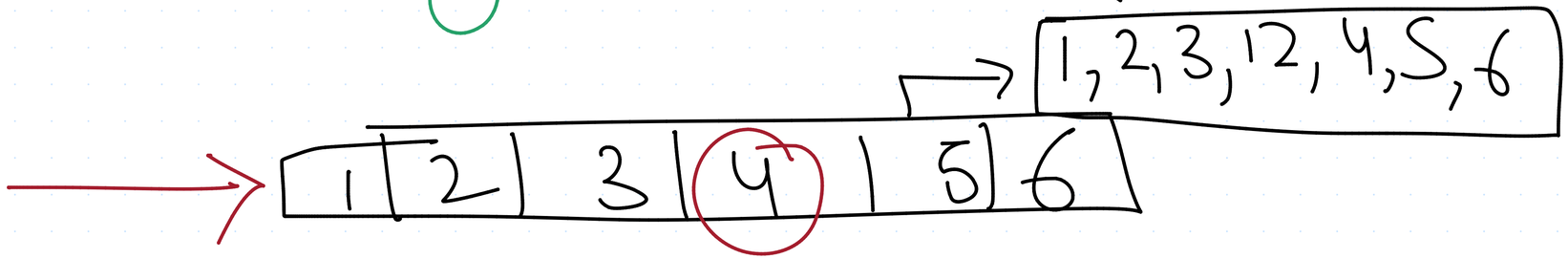
Arrays → Dynamic

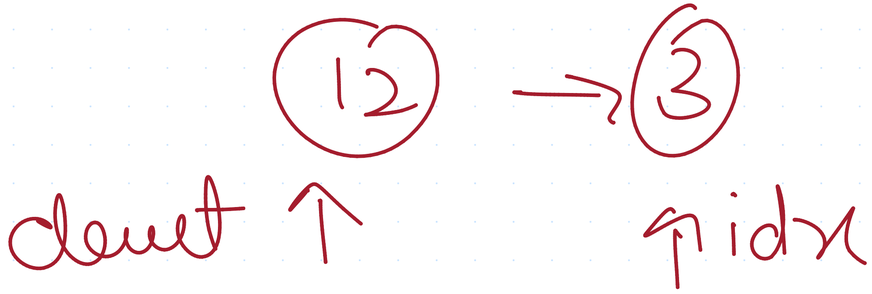


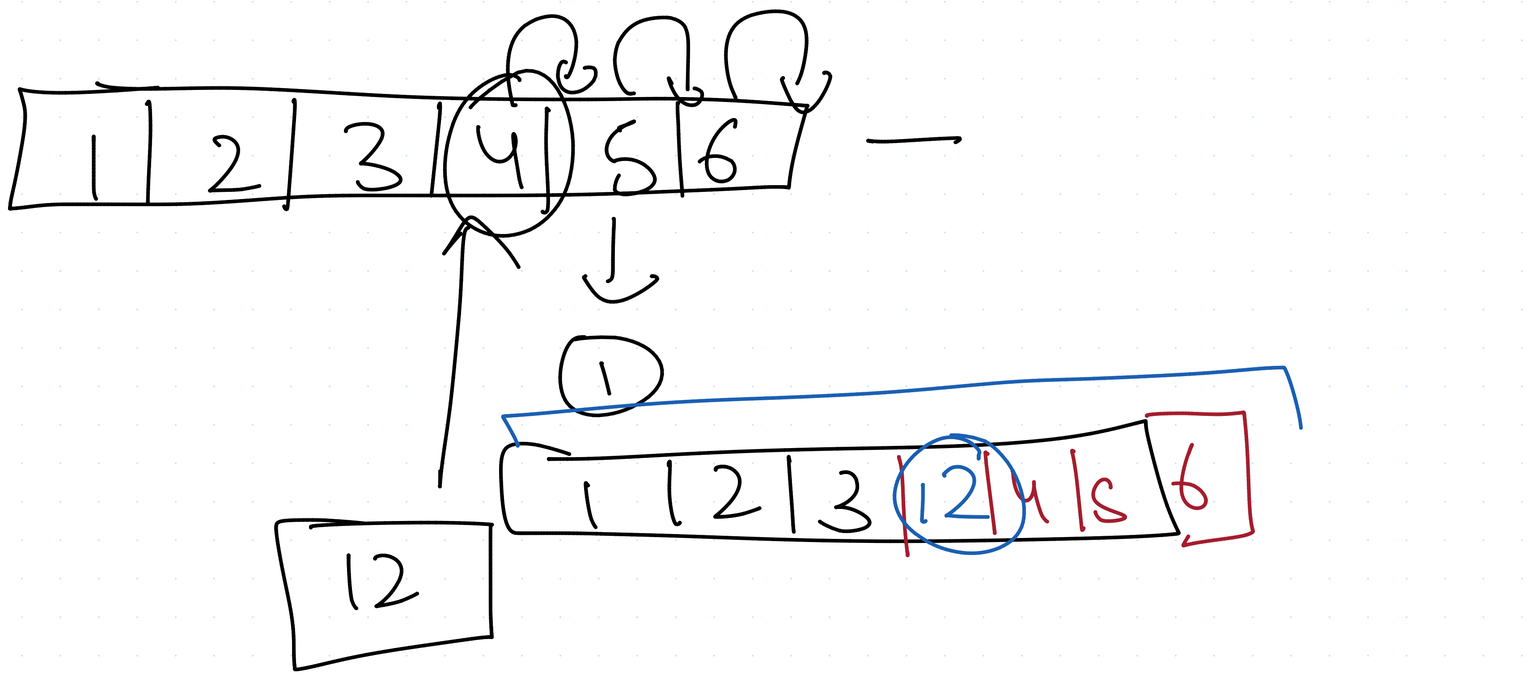
Continous memory allocation

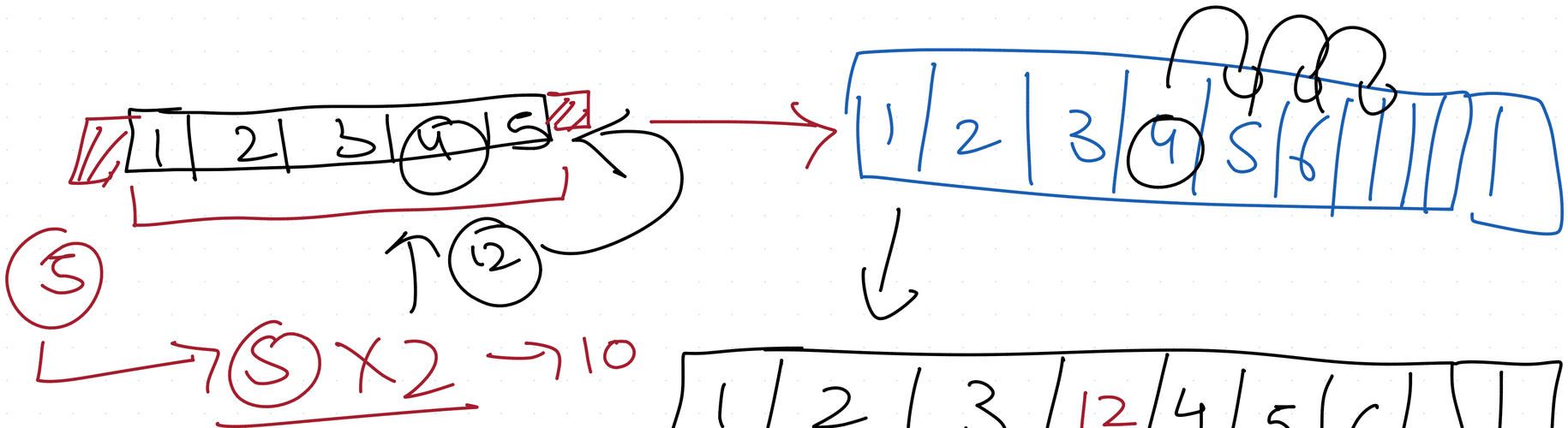
Time complexity → Read

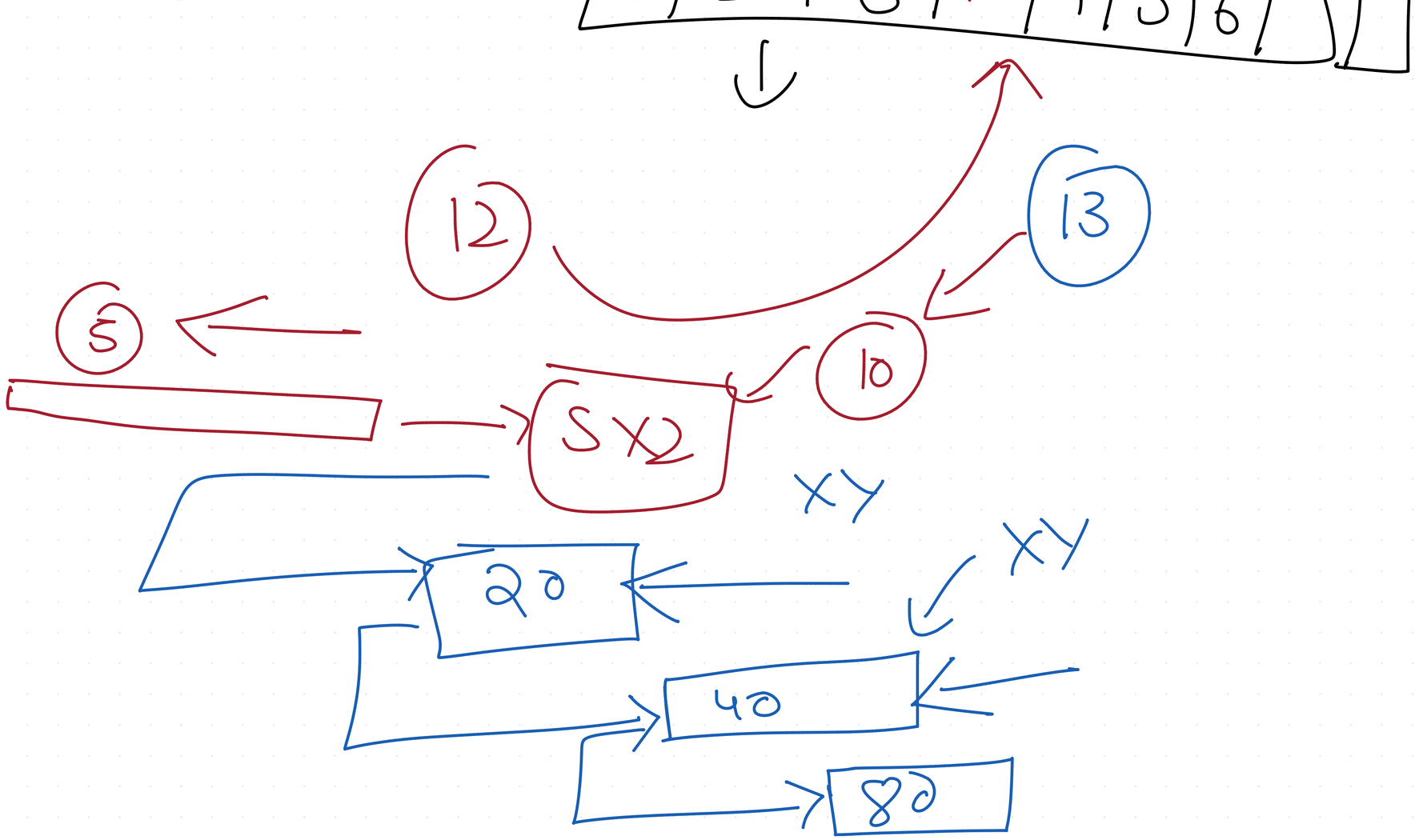
Write

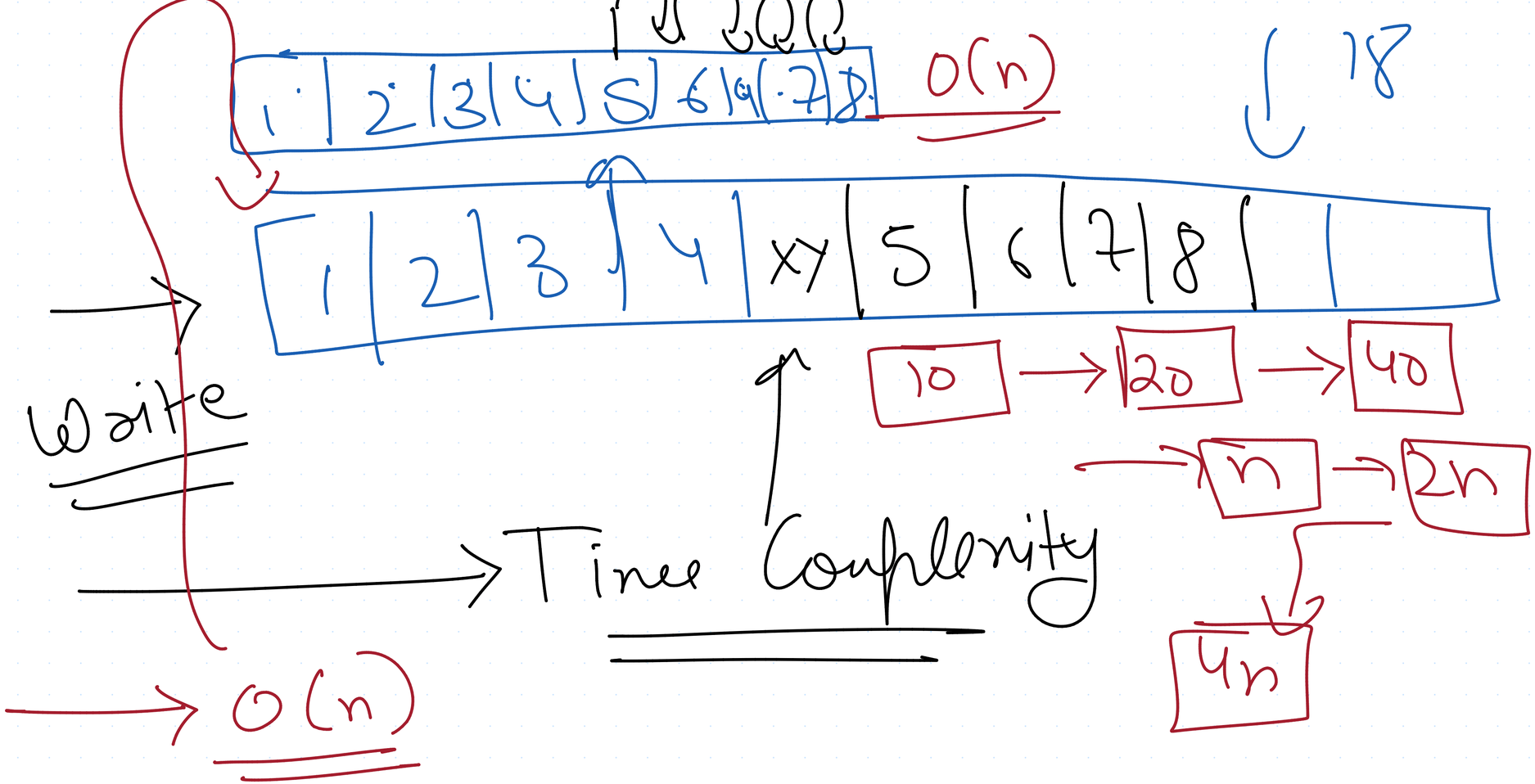


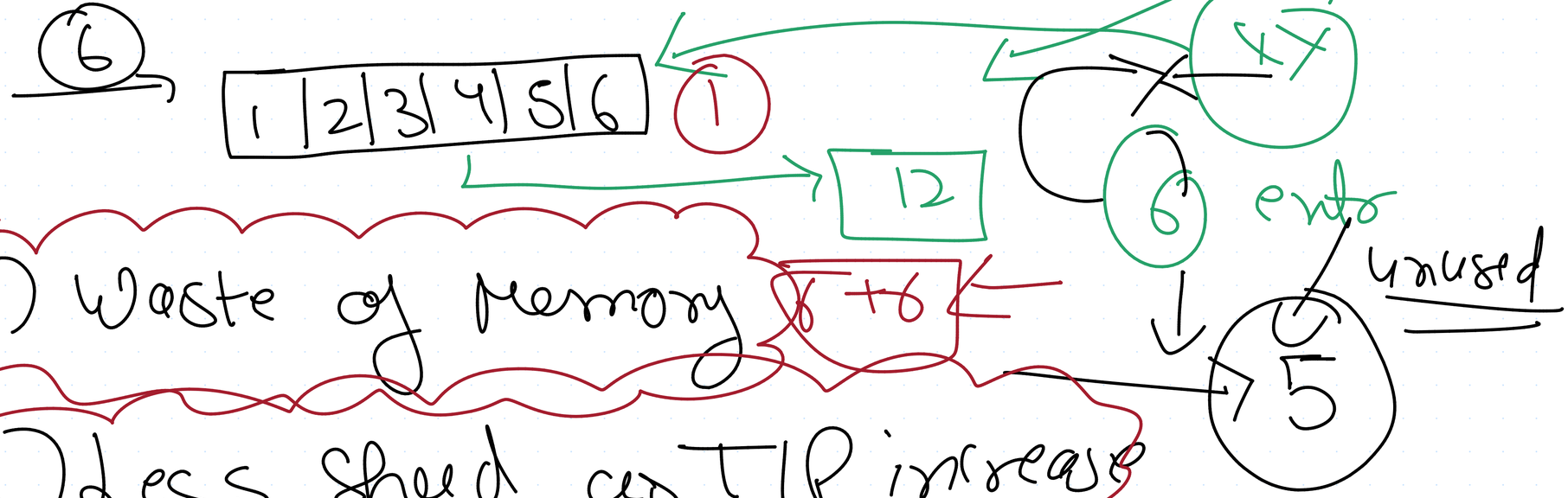



1 2 3 4 5 6
1
1 2 3 12 4 5 6
12


1 2 3 4 5
12
1 2 3 4 5 6
5
5 X 2 → 10
1 2 3 12 4 5 6


12
13
5
10
SX2
XY
XY
20
40
80


1 2 3 4 5 6 7 8
O(n)
18
1 2 3 4 xy 5 6 7 8
Write
Time Complexity
O(n)
10 → 20 → 40
n → 2n
4n



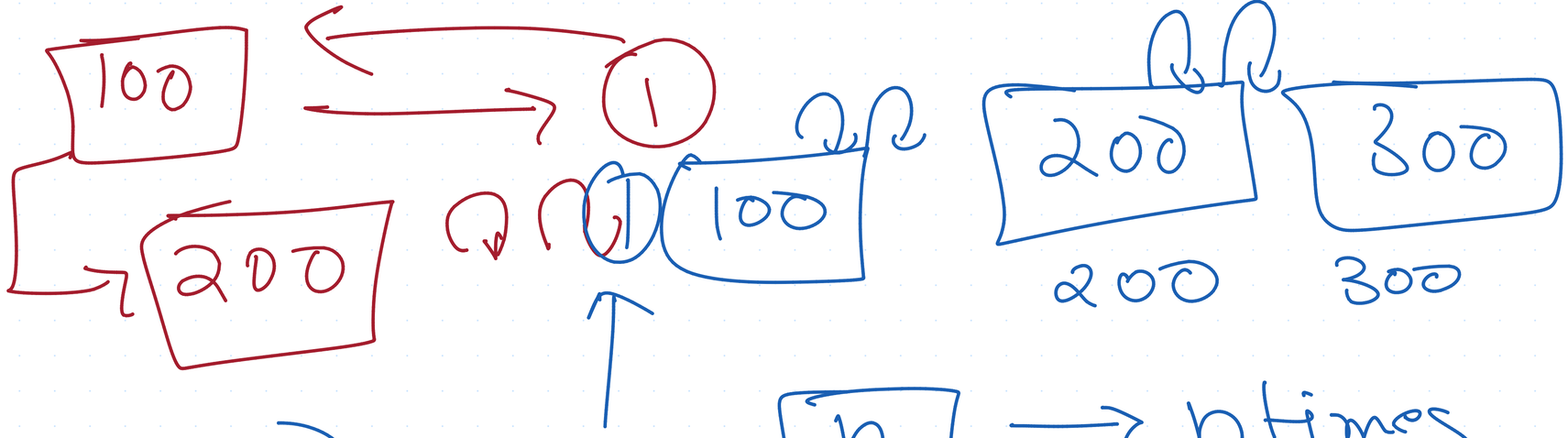
1) Waste of memory 6 + 6

2) Less speed as I/P increase

6 + 1

6 + 2

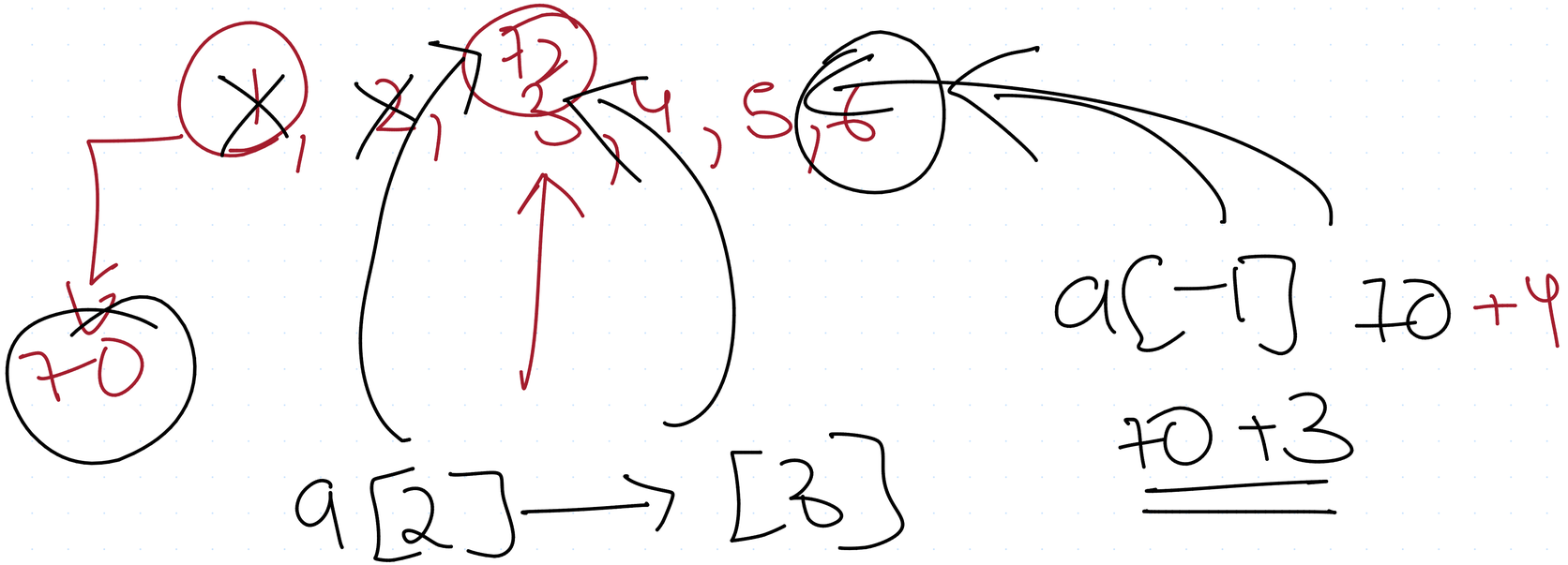
O(n)



n → n times

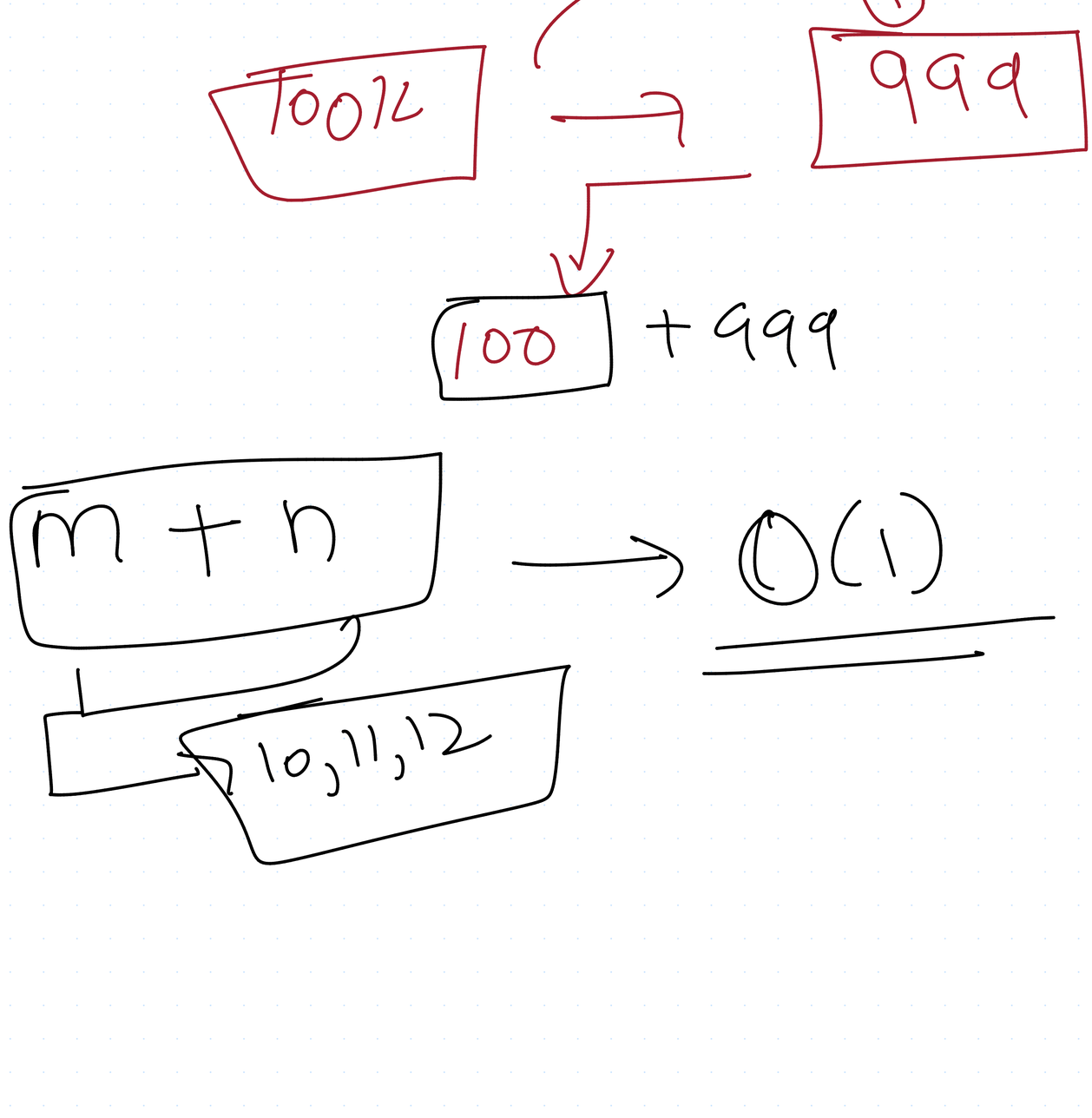
T(Write) → O(n)

Read → O(1)



Read → O(1) → Continuous memory

Write → O(n)


1001
999
100
+999
m + n
O(1)
10,11,12