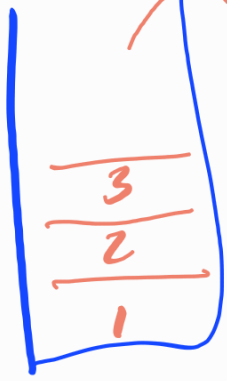


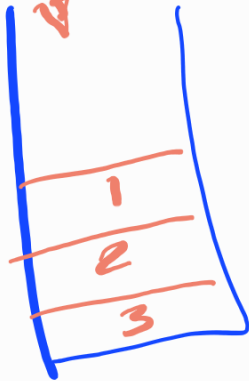
LIFO



queue\_in

move-queue

FIFO



queue\_out

1 → 2 → 3

2 → 1 → 5

4 → 5 → 6

7 → 9 → 4 → null

carry = 0

carry = 1

3 → 2 → 1

2 → 1 → 5

4 → 5 → 6

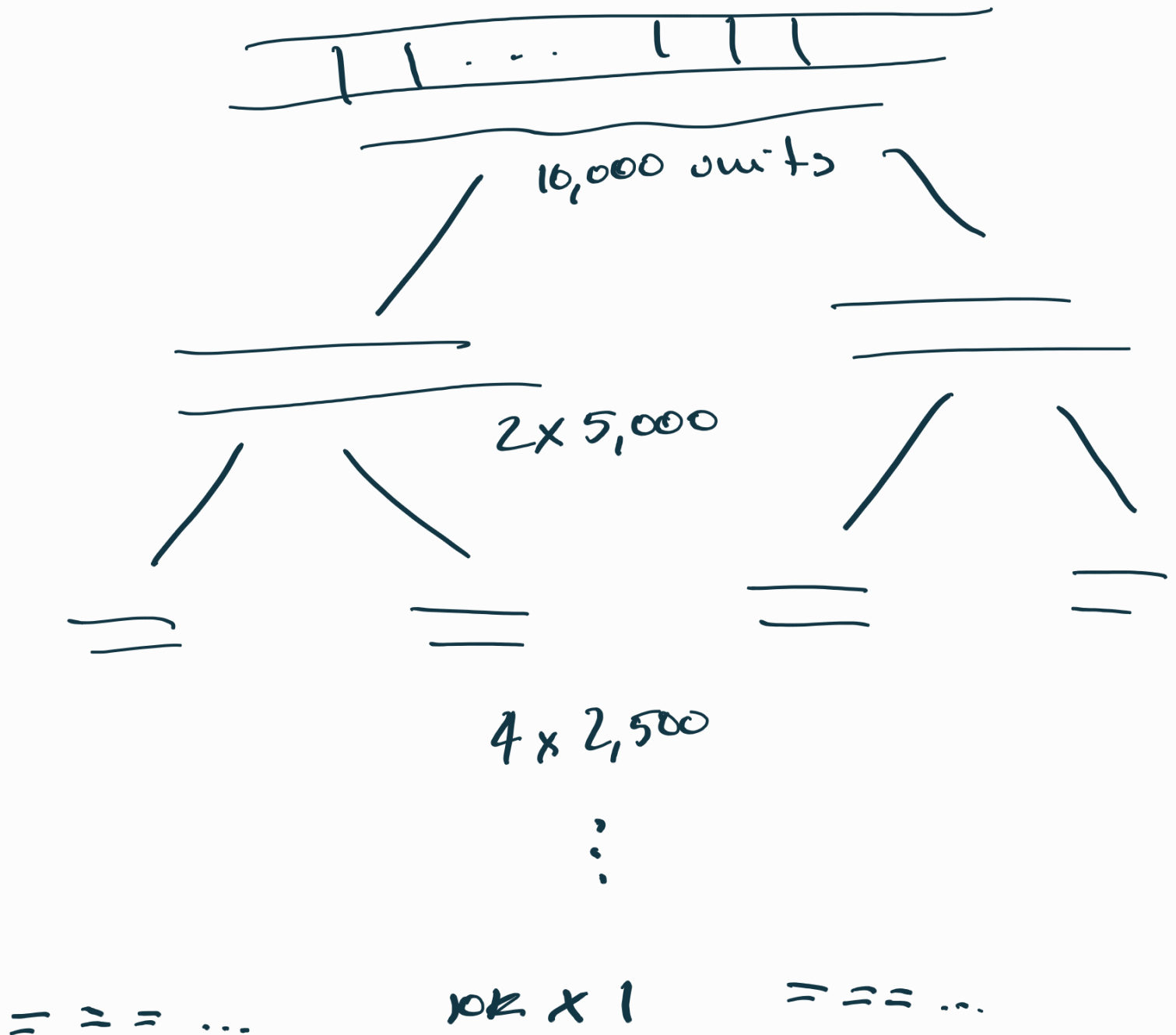
(4) → (9) → (7)

7 → 9 → 4 → null

# Recursion

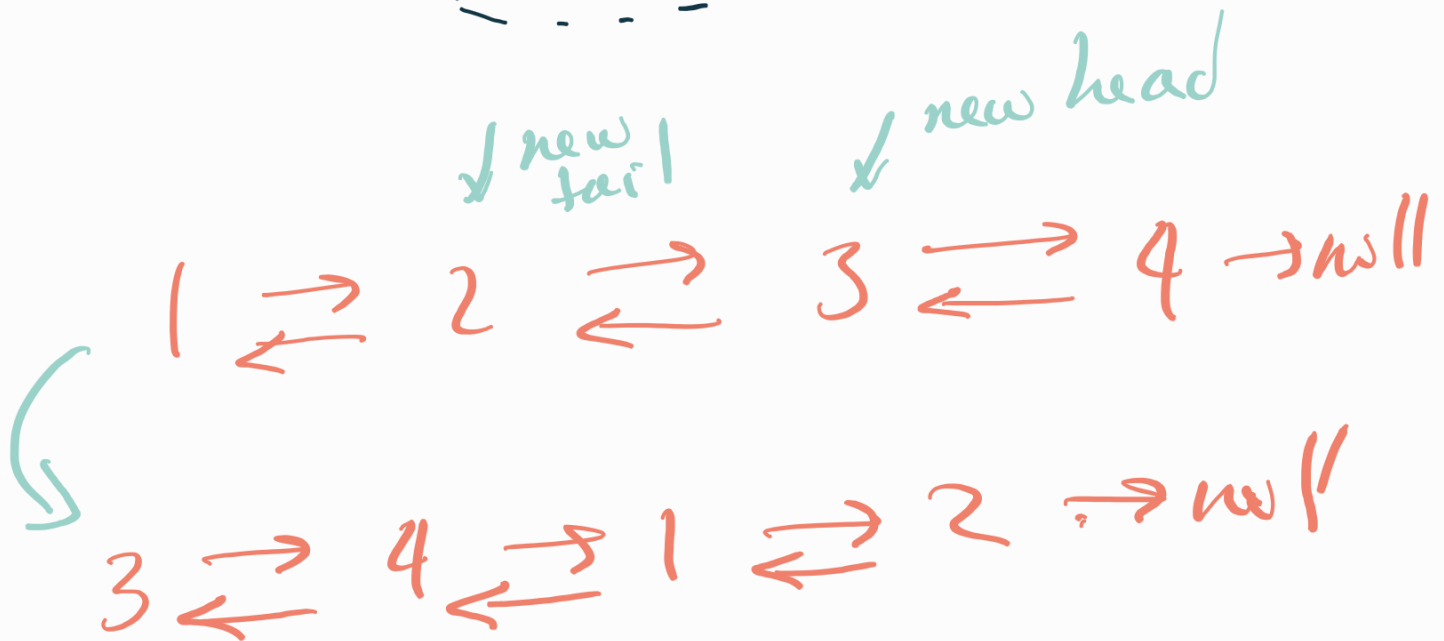
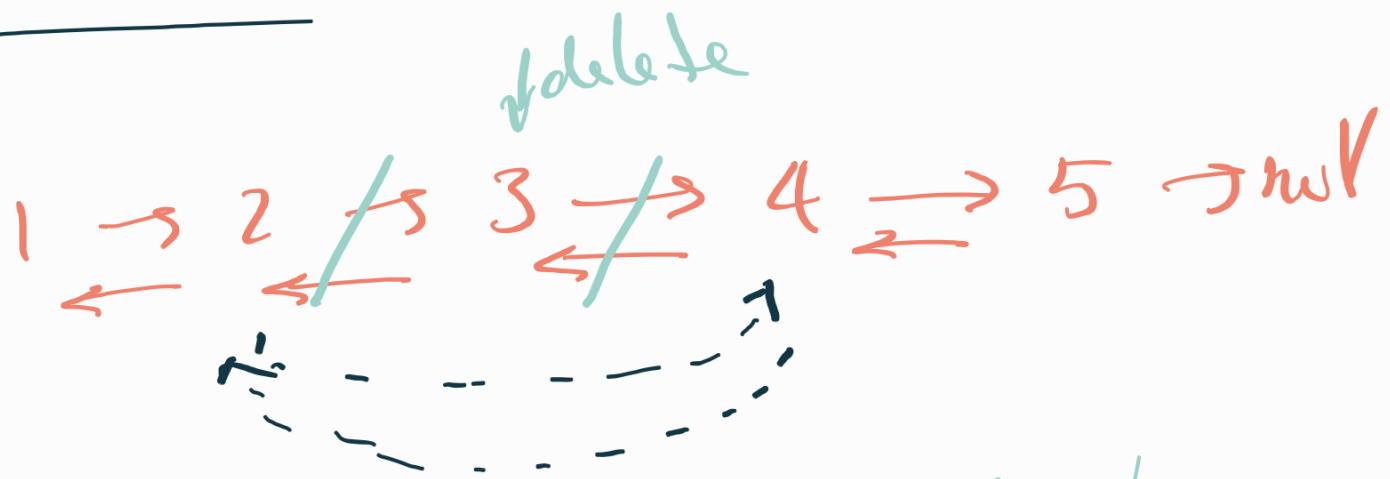
- Reduce the problem complexity.

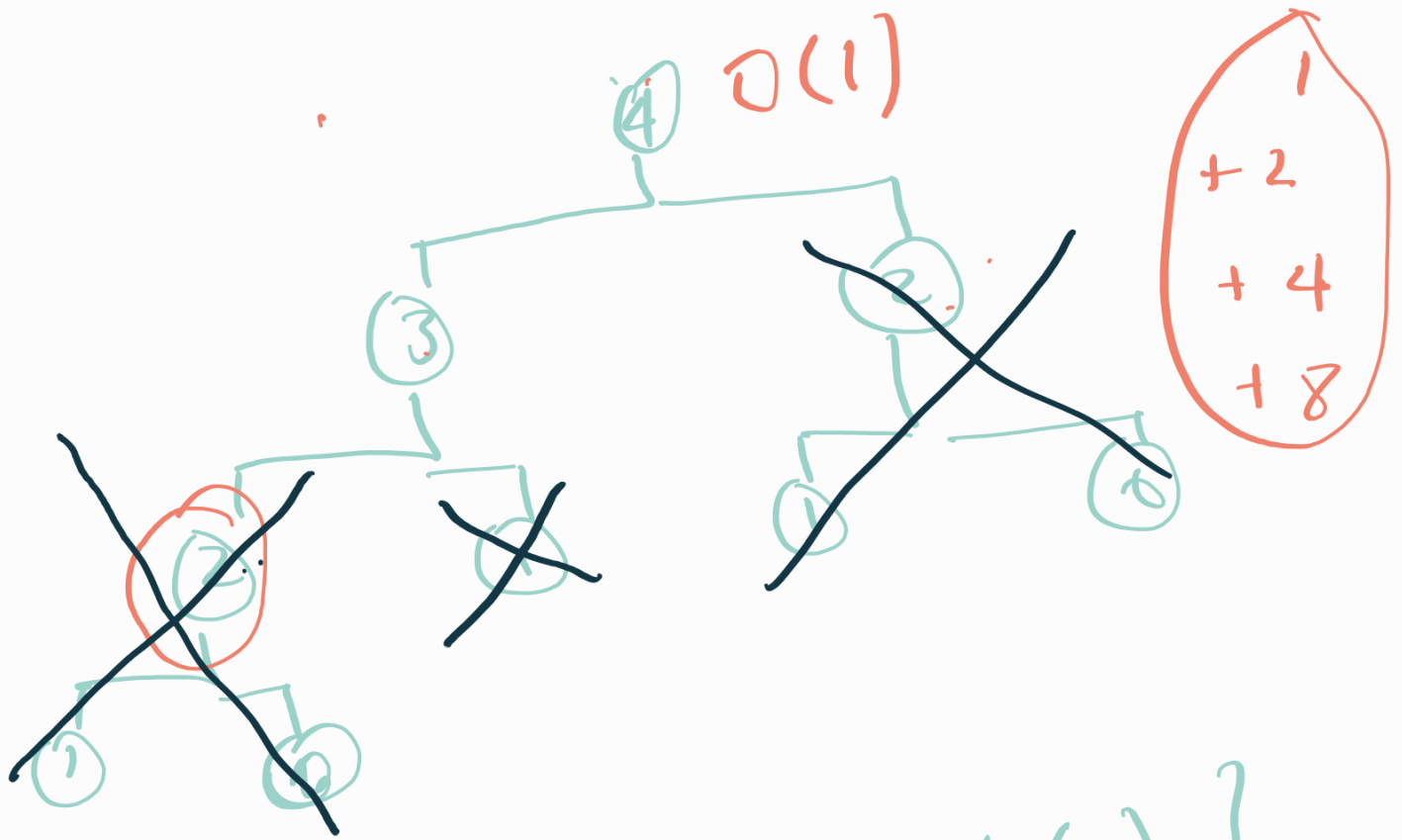
merge sort



Add a method to fetch the middle element in a queue.

- without dequeuing the element





$3 \times \text{Fib}(1)$   
 $2 \times \text{Fib}(0)$

$\text{Fact}(1) ?$   
 $\text{Fact}(2) ?$

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