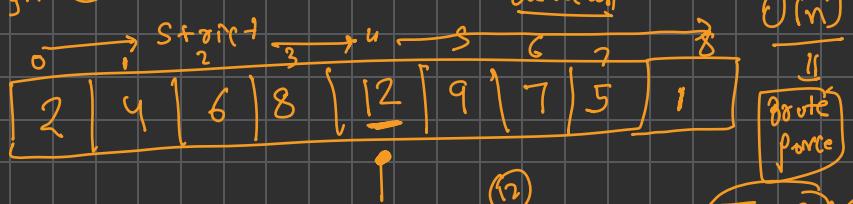


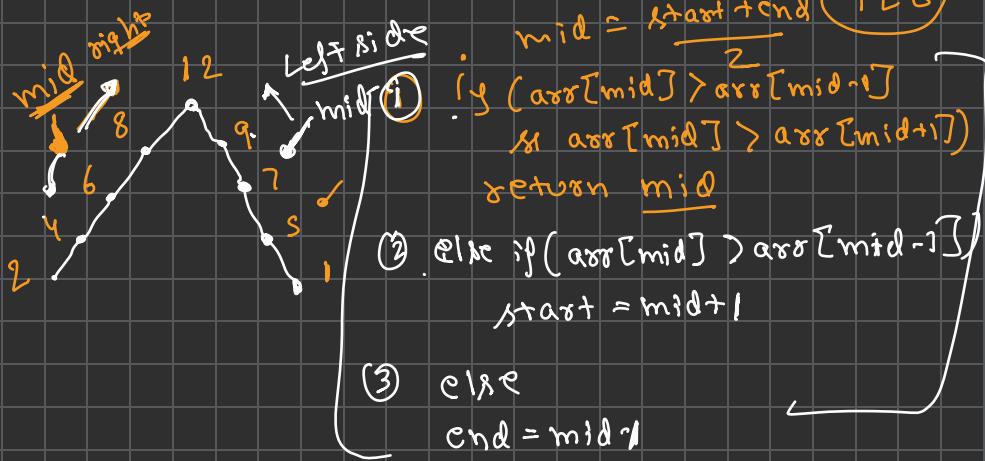
Left ↗
Right ↗

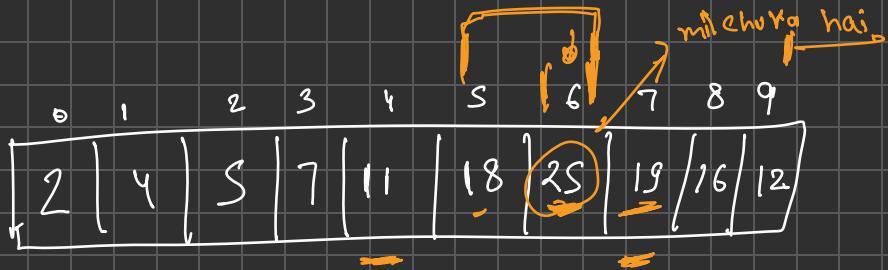
end = mid - 1

decrease



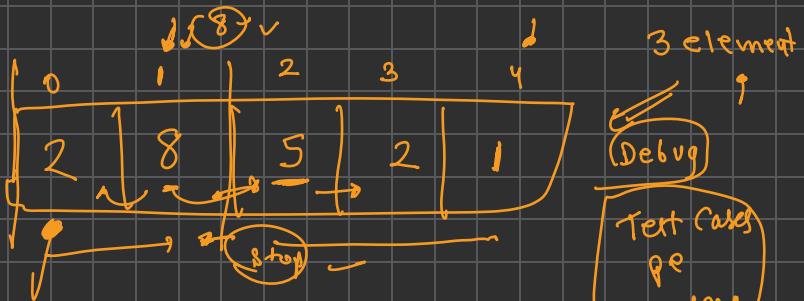
$O(n)$
route
parce





Increasing Order:

Decreasing Order



start = 0
 end = 1

mid = 2
 $mid = start + (end - start) / 2$

6 8 4

$$\begin{aligned}
 mid &= end + (start - end) / 2; \\
 &= 1 + (0 - 1) / 2 \\
 &= \frac{1}{2}
 \end{aligned}$$

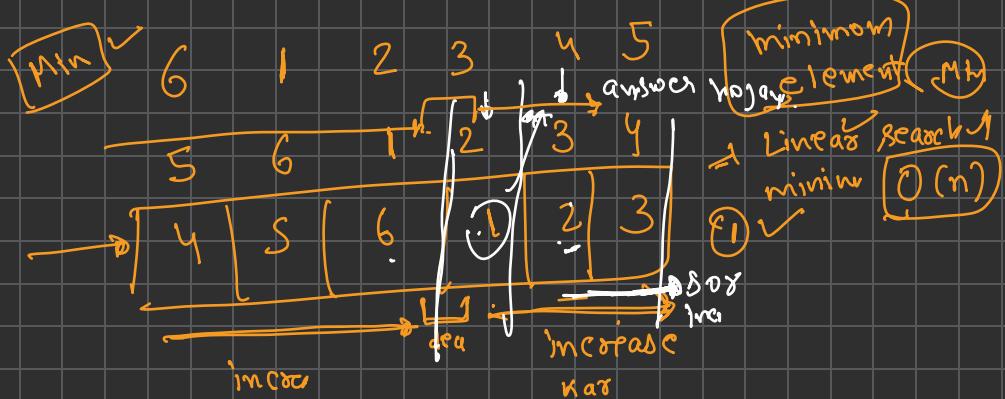
mid



10	20	30	40	50	Check
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strictly
b
time

1	2	3	4	5	6
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left ✓
right ✓

Every Element

