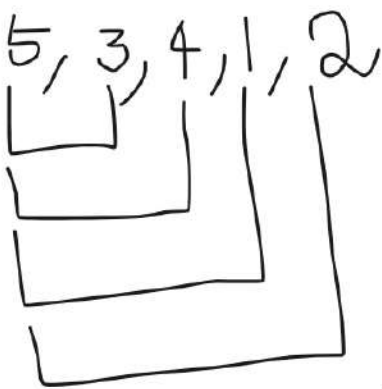


Insertion Sort $i = \text{No of Pass}$



$$3, 5 - i = 0$$

$$3, 4, 5 - i = 1$$

$$1, 3, 4, 5 - i = 2$$

$$1, 2, 3, 4, 5 - i = 3$$

$$\text{No of passes} = n - 2 \quad (n \rightarrow \text{size(arr)})$$

$j = i + 1; j > 0$

$j \rightarrow$ inner loop

$\underbrace{5, 3, 4, 1, 2}_j$

$j < j - 1$

3, 5, 4, 1, 2

3, 4, 5, 1, 2

↑ Done

1, 3, 4, 5, 2

1, 2, 3, 4, 5

$(j > 0)$

$i = 0 \quad j = 1$

$i = 1 \quad j = 2$

$i = 2 \quad j = 3$

$i = 3, j = 4$

Reason \rightarrow LHS already Sorted