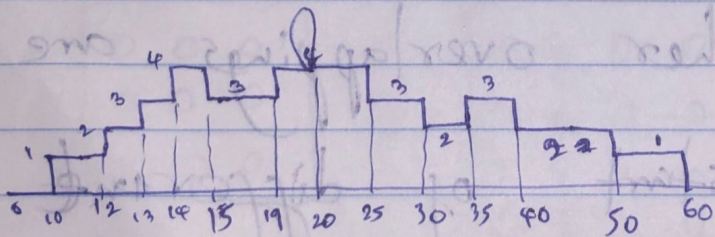
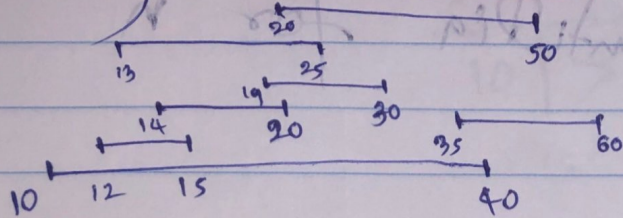


* Meeting Rooms II



Atlas

store in 2 arrays; start & end st. values are sorted.

$$\text{start} = [10, 12, \cancel{14}, \cancel{14}, 14, 19, 13, 20, 35]$$

↓

$$\text{start} = [10, 12, 13, 14, 19, 20, 35]$$

$$\text{end} = [15, 20, 30, 25, \cancel{40}, \cancel{40}, 50, 60]$$

$$\text{end} = [15, 20, 25, 30, 40, 50, 60]$$

$$\text{start} = [10, 12, 13, 14, 19, 20, 35]$$

$$\text{end} = [15, 20, 25, 30, 40, 50, 60]$$

take min value. If min is from start, increase counter value. Else decrease counter value.

Diagram showing the initial state of the arrays and the counter C :

$$\begin{array}{l} \text{start} = [10, 12, 13, 14, 19, 20, 35] \\ \text{end} = [15, 20, 25, 30, 40, 50, 60] \\ C = 0 \rightarrow C = 1 \end{array}$$

Diagram showing the state after the first comparison:

$$\begin{array}{l} \text{start} = [10, 12, 13, 14, 19, 20, 35] \\ \text{end} = [15, 20, 25, 30, 40, 50, 60] \end{array}$$

Diagram showing the state after the second comparison:

$$\begin{array}{l} \text{start} = [10, 12, 13, 14, 19, 20, 35] \\ \text{end} = [15, 20, 25, 30, 40, 50, 60] \\ C = 1 \rightarrow C = 2 \end{array}$$

Diagram showing the state after the third comparison:

$$\begin{array}{l} \text{start} = [10, 12, 13, 14, 19, 20, 35] \\ \text{end} = [15, 20, 25, 30, 40, 50, 60] \\ C = 2 \rightarrow C = 3 \end{array}$$

Diagram showing the state after the fourth comparison:

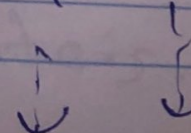
$$\begin{array}{l} \text{start} = [10, 12, 13, 14, 19, 20, 35] \\ \text{end} = [15, 20, 25, 30, 40, 50, 60] \\ C = 3 \rightarrow C = 4 \end{array}$$

Diagram showing the state after the fifth comparison:

$$\begin{array}{l} \text{start} = [10, 12, 13, 14, 19, 20, 35] \\ \text{end} = [15, 20, 25, 30, 40, 50, 60] \\ C = 4 \rightarrow C = 3 \end{array}$$

Diagram showing the state after the sixth comparison:

$$\begin{array}{l} \text{start} = [10, 12, 13, 14, 19, 20, 35] \\ \text{end} = [15, 20, 25, 30, 40, 50, 60] \\ C = 3 \rightarrow C = 4 \end{array}$$



No: _____

Date: ____/____/____

when reached to end of start, no need
to proceed as value keeps decreasing
after that.