

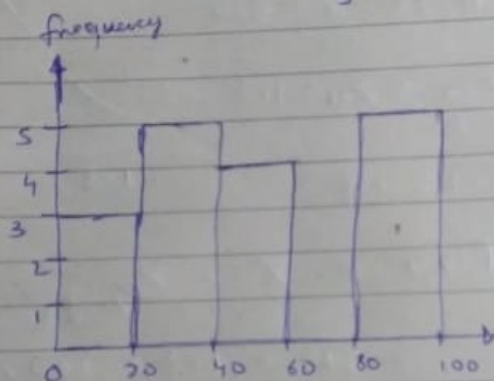
Assignment

eg: 10, 13, 18, 22, 27, 32, 38, 40, 45, 51, 56, 57, 77, 92, 94, 99

(10 - 100)

Bin = 5

$$\text{Bin Size} = \frac{100}{5} = 20$$

HistogramAssignment

Ques { 1, 2, 2, 2, 3, 3, 4, 5, 5, 5, 6, 6, 6, 6, 7, 8, 8, 9, 27 }

Find lower & higher fence, draw Box plot.

Ans $Q_1 = \frac{25}{100} \times 20 = 5^{\text{th}} \text{ Index} = 3$

$Q_3 = \frac{75}{100} \times 20 = 15^{\text{th}} \text{ Index} = 7$

$IQR = Q_3 - Q_1 = 7 - 3 = 4$

Lower fence = $Q_1 - 1.5(IQR) = 3 - 1.5 \times 4 = -3$

Higher Fence = $Q_3 + 1.5(IQR) = 7 + 1.5 \times 4 = 13$

[-3 to 13]

Mini = 1

Max = 9

Median = 5

