

Box plot

Q] [34, 6, 7, 8, 9, 90, 23]

Ans: step 1:- Sort the given data in ascending order.

[6, 7, 8, 9, 23, 34, 90]

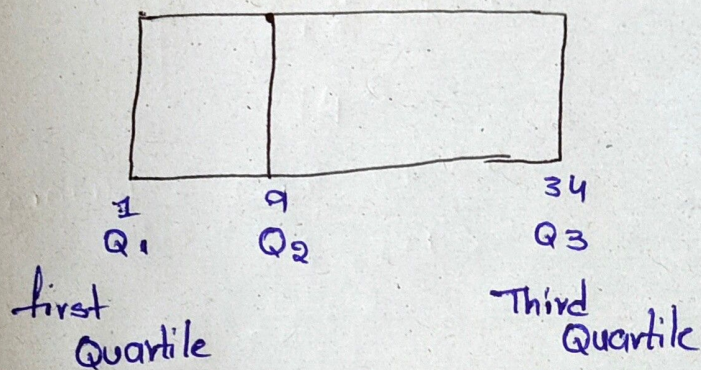
step 2: Then find median Q_2

$$Q_2 = 9$$

step 3: Then find Q_1 and Q_3

6, 7, 8, 9, 23, 34, 90

median of	median of
this data is Q_1	this data is Q_3



Then find IQR (Interquartile Range)

$$IQR = Q_3 - Q_1$$

$$IQR = 27$$

Then we have to find minimum and maximum to know Outlayers

for min: $Q_1 - (IQR \times 1.5)$

$$\Rightarrow 7 - (27 \times 1.5)$$

$$\Rightarrow 7 - 40.5$$

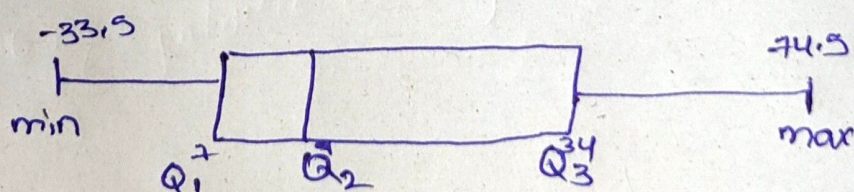
$$\Rightarrow -33.5$$

for max: $Q_3 + (IQR \times 1.5)$

$$\Rightarrow 34 + (27 \times 1.5)$$

$$\Rightarrow 34 + 40.5$$

$$\Rightarrow 74.5$$

 \therefore In this given data 90 is the outlayer