

Why do we need to treat outliers?

Outliers can impact the results of our analysis and statistical modelling in a drastic way.



A DATA VALUE IS CONSIDERED TO BE AN OUTLIER IF..





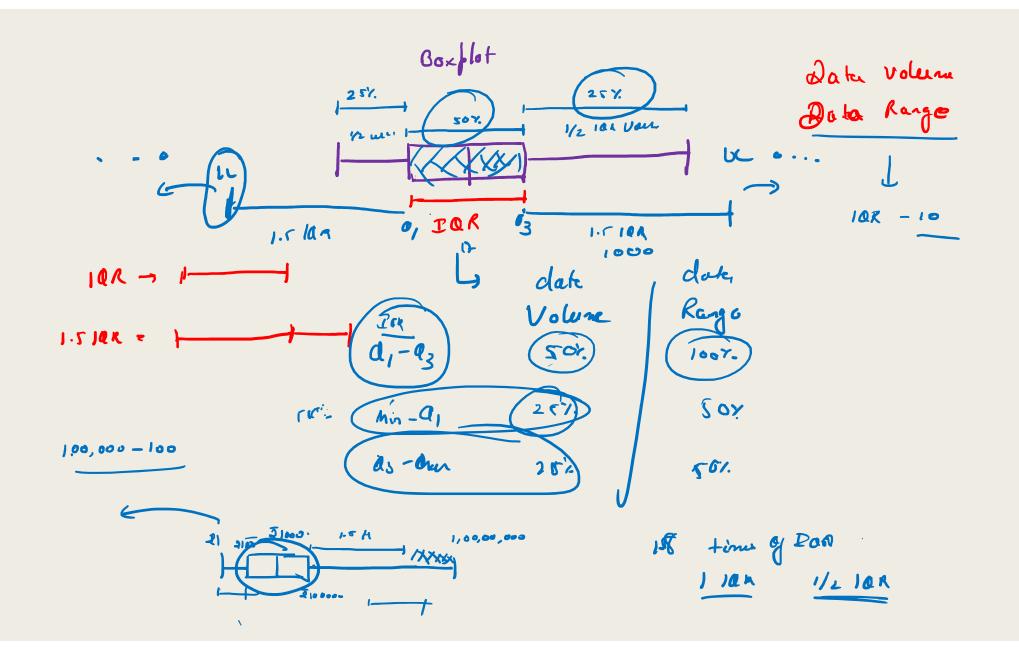
DATA VALUE (<) Q1 – 1.5(IQR)

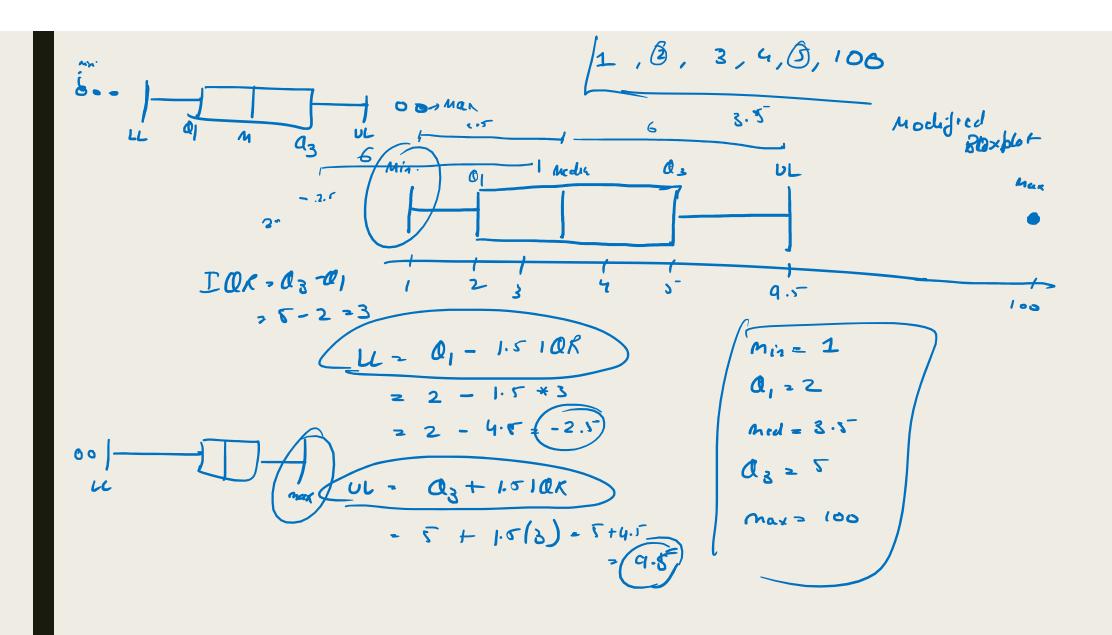


DATA VALUE



Q3 + 1.5(IQR)





Q. Can you identify the outliers from the below dataset, using the IQR method?

26.0 °C, 15.0 °C, 20.5 °C, 31 °C, 350.0 °C, 31.0 °C, 30.5 °C



Outlier

$$1.7 + 16 \cdot \frac{27}{27}$$

$$0 = 0 + 1.7 (TQR)$$

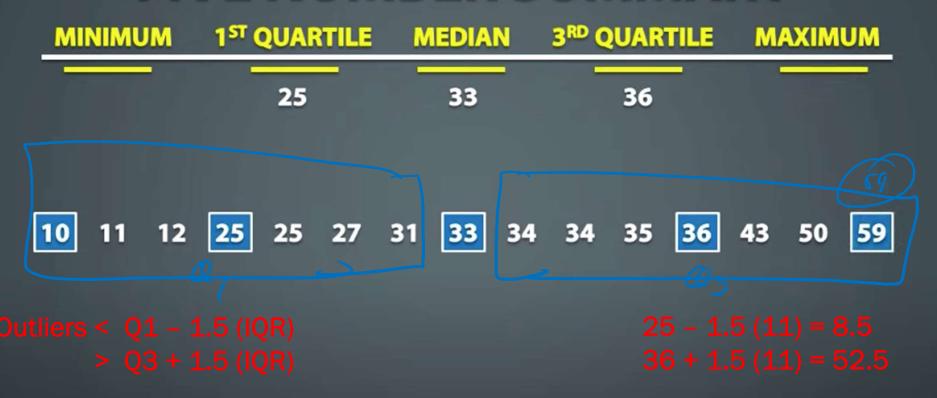
$$1.6 \cdot \frac{27}{27}$$

$$1.7 + 16 \cdot \frac{27}{27}$$

$$1.7 \cdot \frac{1}{27} = 0 + 1.7 (TQR)$$

$$1.7 \cdot \frac{1}{27$$

FIVE NUMBER SUMMARY



Hence, we can say that 59 is the only outlier we have in our dataset.

