Assignment

Class	Minimum	Q1	Median	Q3	Maximum
Day	32	56	74.5	82.5	99
Night	25.5	78	81	89	98

Finding IQR:

Day:

IQR = Q3 – Q1 = 82.5 – 56 = **26.5**

Night:

IQR = Q3 – Q1 = 89 – 78 = **11**

Lesser Range of Outlier:

Day:

Lesser Range = Q1-(1.5 * IQR)

= 56 – (1.5 * 26.5)

= 56 - 39.75 = **16.25**

Night:

Lesser Range = Q1-(1.5 * IQR)

= 78 – (1.5 * 11)

= 78 – 16.5 = **61.5**

Greater Range of Outlier:

Day:

Greater Range = Q3 + (1.5 * IQR)

= 82.5 + (1.5 * 26.5)

= 82.5 + 39.75 = **122.25**

Night:

Greater Range = Q3 + (1.5 * IQR)

= 89 + (1.5 * 11)

= 89 + 16.5 = **105.5**

Summary:

Day Class: Outlier Range – Lesser = 16.5, Greater = 122.5

In given all data between 32 to 99 there is **No Outlier**.

Night Class: Outlier Range – Lesser = 61.5, Greater = 105.5

In given all data between 25.5 to 98**, Lesser outlier is detected (25.5)**