**Problem:**

1. **The IQR, compare two interquartile ranges**
2. **Any outliers in either set**

**The five number summary for a day and night classes is**

**Day Night**

**Minimum - 32 25.5**

**Q1 56 78**

**Median 74.5 81**

**Q3 82.5 89**

**Maximum 99 98**

**Solution:**

For day:

**IQR=Q3-Q1**

=82.5-56

=26.5

1.5 IQR= 1.5\*26.5

=39.75

Lesser range of outlier=Q1-1.5\*IQR

=56-39.75

=16.25

Greater range of outlier=Q3+1.5\*IQR

=82.5+39.75

=122.5

Hence, 32>16.25 No lower outlier

99<122.25 No upper outlier

Therefore no outlier for day classes.

For night:

**IQR=Q3-Q1**

=89-78

=11

1.5 IQR= 1.5\*11

=16.5

Lesser range of outlier=Q1-1.5\*IQR

=78-16.5

=61.5

Greater range of outlier=Q3+1.5\*IQR

=89+16.5

=105.5

Hence, 25.5<61.5 Lesser outlier present

98<105.5 No upper outlier

Therefore lesser outlier for night classes are present.