Problem:

A. **The IQR, compare two interquartile ranges**
B. **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.