Boxplot

• In a study about truck drivers, the heart rates of 33 sampled drivers were taken. The results of the study is summarized using a stem-and-leaf plot given below.

	5 2355579	-	
	6 003334466788		
	7 113346777		
	8 0246		
	9 1	_	
note that $\sum_{i=1}^{33} X_i = 2250$ and $\sum_{i=1}^{33} X_i^2 = 1$ 1. Determine the following:	56702.		
a. Maximum value			
b. Sample mean			
c. Standard deviation.		note : Variance =	$=\frac{\sum x^2 - \frac{(\sum x)^2}{n}}{n-1}$
d. Median.			
e. The value of first quartile (Q_1)			
f. The value of third quartile (Q_3)	3)		
g. The value of IQR.			
h. The lower inner fence for the b	oxplot		
i. The upper inner fence for the	boxplot		
2. Draw a horizontal modified boxpl	ot for this data. Ar	e there potential outliers'	,

Homework.

Section 2.7: (pp. 84 - 85) # 2.106, 2.116; Section 2.8: (pp. 94 - 95) # 2.120, 2.125, 2.126.