CS 406 Discrete Mathematics 2
Homework - Statistics

1 .   The heights (in feet) of 11 garden fences are: 8, 6, 7, 3, 2, 2.5, 3.5, 3, 3, 7, 3.5.

(a) Calculate the mean $\overline{x}$.

(b) Calculate the median.

(c) Calculate the quartiles Q_1, Q_2, Q_3.

(d) Calculate the sample standard deviation.

(e) Create a frequency distribution with classes 0-2.4, 2.5-4.9, 5.0-7.4, 7.5-9.9 (class limits). List class boundaries, class marks, and the class intervall.

(f) Calculate the mean based on the frequency distribution. Use the class marks to approximate the average fence height per class.