Assignment 3

Harshit Pant

CS21BTECH11021

Abstract—This document contains the solution to Example 12 of Chapter 14 (Statistics) in the NCERT Class 9 Exemplar.

Example 12: The heights (in cm) of 9 students of a class are as follows:

155	160	145	149	150	147	152	144	148

TABLE I
RAW DATA

Find the median height of this data.

Solution: In order to calculate the median of this data, we need to arrange it in ascending order,

144	145	147	148	149	150	152	155	160

TABLE II
SORTED DATA

Since the number of students is an odd number, the median height is equal to the height of $\left(\frac{9+1}{2}\right)^{\text{th}}$ student in this sorted table. Hence the median height of the students is 149 cm.
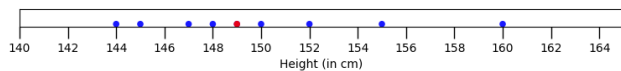

Fig. 1. plot

It is also evident from the above plot that the median height (plotted by red) is 149 cm.