

Eastern University

Eastern University of Sri Lanka,
First Examination in Science 2002/2002
First semester (June/July 2003)
CS-152 Practical work on CS 103

Time: Three Hours

In a class with 20 pupils, the height of the individual pupil, in centimetres, is given in the following list:

175, 167, 160, 164, 183, 187, 188, 179, 176, 175,
169, 175, 176, 178, 165, 160, 173, 165, 187, 178

Write a program to do the following tasks:

- (a) Read 20 such heights.
- (b) Use selection sort technique to sort the heights in ascending order.
- (c) Define a struct data type to represent pupil's details. Include the following two fields:
 - (i) int height;
 - (ii) int no_of_pupils,where the field no_of_pupils denotes the number of pupils with the same height

and print a table like this:

Height	no_of_pupils
160	2
164	1
165	2
167	1
.	.
.	.
.	.
188	1

- (d) Find the average height