CSE100 Algorithm Design and Analysis Last update: 2/8/2018

Last update: 2/8/2018 Deadline: 11:59pm, 2/22/2018

Lab 04-1, Spring 2018

Heap-Sort

Description In this lab assignment (lab 04-1), your job is to implement heap-sort. This is the first half of lab 04 and is worth 50 points.

Input structure The input starts with an integer number which indicates the number of elements (integers) to be sorted, n. Then, the elements follow, one per line.

Output the elements in non-decreasing order. Each element must be followed by ;.

Examples of input and output:

Input 6 5 3 2 1 6 4 Output 1;2;3;4;5;6;

Note that the output has only one line and has no white characters.

See the lab guidelines for submission/grading, etc., which can be found in Files/Labs.