CSE100 Algorithm Design and Analysis Last update: 2/10/2020

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Lab 04-1, Spring 2020

## **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.