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| **Project 4** | **CMPT 438 Algorithms** |
|  | **Fall 2016** |

Implement the heapsort algorithm in C++ or Java. Max-Heapify and Build-Max-Heap should be implemented as separate methods. For several small values of n, print out “before” and “after” displays of a few random arrays sorted using your algorithm.

Submit a MS word document to Moodle (lms.manhattan.edu) that consists of the followings:

* Source code in either C++ or Java
* Screenshot of the output