Ryan Hoffman CS302.1001 Assignment #4

To Compile and Run: Enter folder named 'PA04_RyanHoffman' and type 'make' to compile and run.

Terminal Output:

```
--std=c++11 proj4.cpp -o proj4
/proj4
INITIAL VECTOR WITH RANDOM VALUES:
9 2 4 8 2 4 6 5 2 9 3 8 8 3 5 3 6 7 7 2 0 3 3 8 6 3 0 6 0 9 3 1 1 7 9 6 1 6 3 6
7747010609024300708913130214040936639819
9 3 1 3 9 3 6 6 5 6 7 6 0 0 1 0 5 2 4 5
NEW HEAP:
9 9 9 9 9 9 9 9 9 7 8 8 8 6 3 7 8 8 9 7 7 6 8 6 4 3 7 3 5 3 3 2 5 6 7 6 7 3 6
7 3 6 6 6 3 1 6 4 5 0 2 3 0 0 0 6 0 0 4 1 3 1 1 0 1 1 4 0 4 0 6 3 6 1 3 6 2 1 2
2 3 1 2 0 3 4 3 5 3 0 1 0 0 0 0 5 2 0 4
MEAN OF HEAP: 4
HEAP AFTER ADDING MEAN:
2 3 1 2 0 3 4 3 5 3 0 1 0 0 0 0 5 2 0 4 4
HEAP AFTER DELETING MAXIMUM ELEMENT:
9 9 9 9 9 9 8 9 9 9 7 8 8 7 6 3 7 8 8 9 7 7 6 8 6 4 3 6 3 5 3 3 2 5 6 7 6 7 3 6
7366631645023000400413110114040636136212
2 3 1 2 0 3 4 3 5 3 0 1 0 0 0 0 5 2 0 4
HEAP AFTER SORTING:
7 7 7 8 8 8 8 8 8 9 9 9 9 9 9 9 9 9 9
s302@cs302-VirtualBox:~/Desktop/proj4$
```