



*Assignment 6:
Binary Heaps on Arrays
Due EOD Thursday, 10/25*

October 23, 2018
CS: DS&A
PROOF SCHOOL

Your assignment is to take the file that contains `HeapNode`, `Array`, and the scaffolding for `BinaryHeap`, and implement the heap methods `get_min`, `insert`, and `delete_min`.

Notes on the assignment

- Remember that arrays are 0-based, and we initially derived our child and parent functions for a 1-based system.
- Don't forget to update `size` when appropriate.
- I found I had to `import math` at one point. You may too.

Notes on turning in the assignment

I'm going to be grading in a more automated fashion, so the method for turning in coding assignments in will be a little different from now on.

- Turn in code through a Dropbox folder whose name is your first name.
- Please prepend your name to the assignment name I've given you, separated by an underscore. For example, I would share via Dropbox the file

`jason_assignment_6_binary_heap.py`.

- Make sure your code compiles! Make sure it passes the `test` code I've provided. You'll probably want to make your own test code as well; please put all testing code under `if __name__ == "__main__":`.

Good luck and have fun!