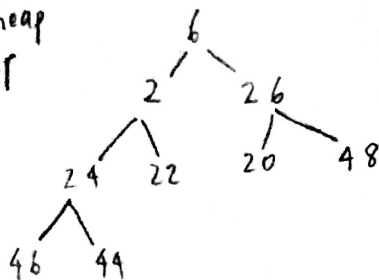


Katherine Sing

1a. \emptyset 6 2 26 24 22 20 48 46 44

Binary heap
Min heap



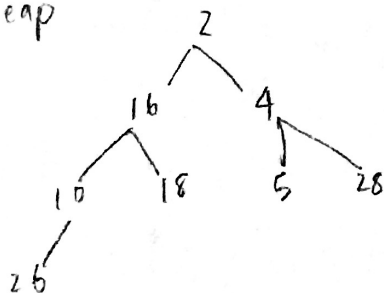
INVALID 6, 2, 26, 20 are out of place.

Every parent must be better than its children.

- 6 and 2 should be swapped
- 26 and 20 should be swapped

\emptyset 2 16 4 10 18 5 28 26

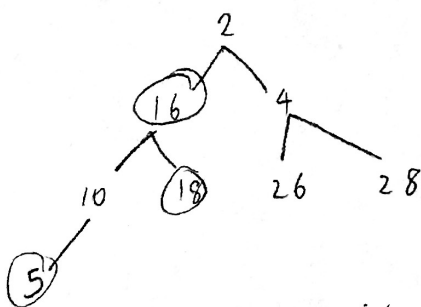
Binary min heap



INVALID. 16 and 10 are out of place.

16 and 10 should be swapped

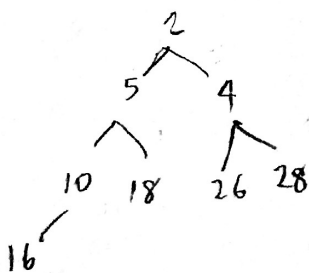
\emptyset 2 16 4 10 18 26 28 5
0 2 5 4 10 16 26 28 18



INVALID

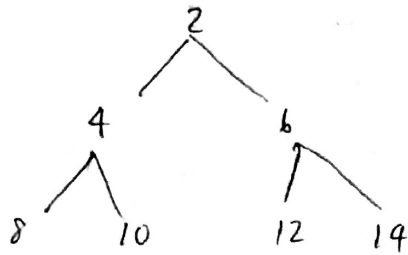
16, 18, 5 are in the wrong places. The array should be

0 2 5 4 10 16 26 28 18
so that the parent is better than its children in all cases.

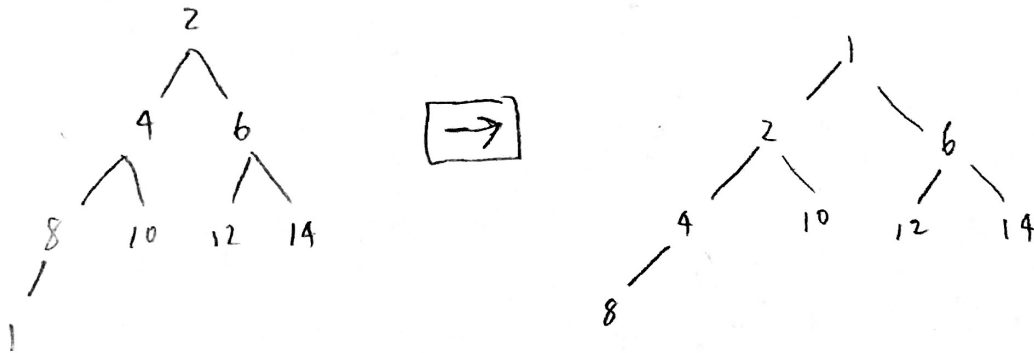


2, 4, 6, 8, 10, 12, 14

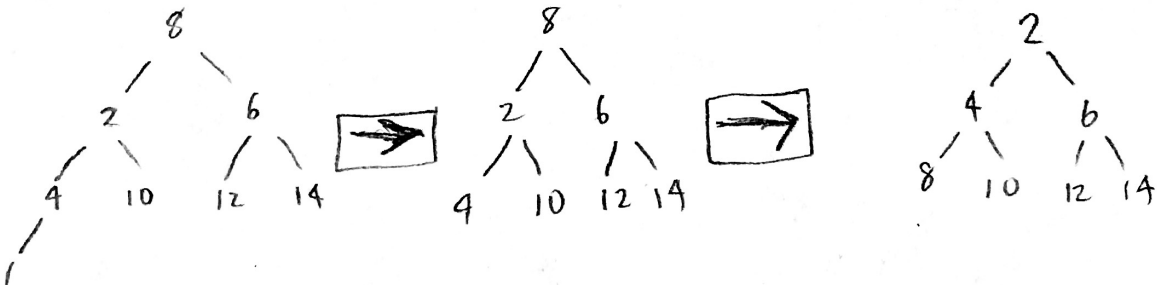
1b.



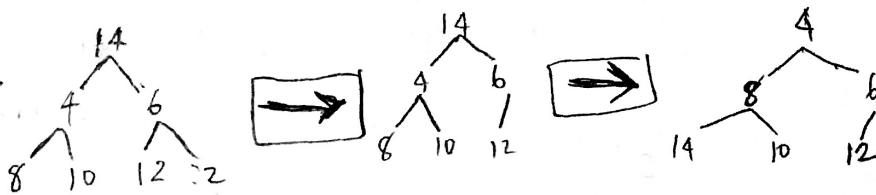
Insert 1:



Pop:



Pop:



Insert 3:

