Andrew Chiang 03/05/2023

Conditions:

44 51 23 40 15 10 45 4 29 10 18 7 6 4 2 1 8 9

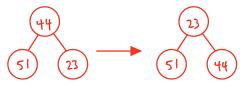
· Insert 44



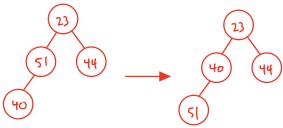
- Insert 5^r
- 51 > 44, no swap



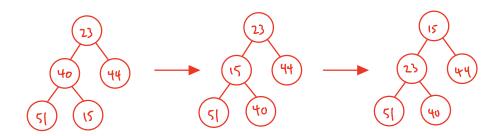
- Insert 2:
- 44 > 23, swap them



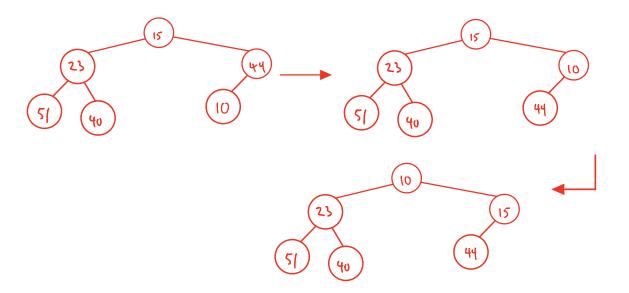
- Insert 40
- 51 > 40, swap them
- 40 > 23, no swap



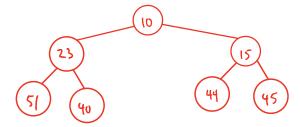
- Insert 15
- 40 > 15, swap them
- 23 > 15, swap them



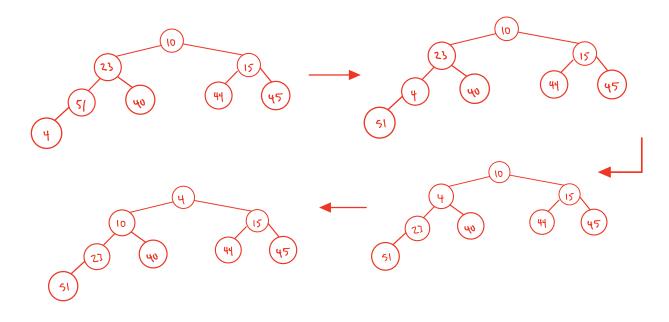
- Insert 10
- 44 > 10, swap them
 15 > 10, swap them



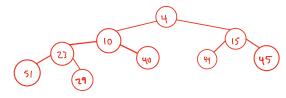
- Insert 4545 > 15, no swap



- · Insert 4
- 51 > 4, swap them
- 23 > 4, swap them
 10 > 4, swap them



- · Insert 29
- 29 > 23, no swap

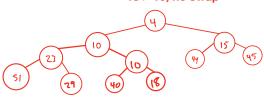


- Insert 10
- 40 > 10, swap them
- 10 = 10, no swap

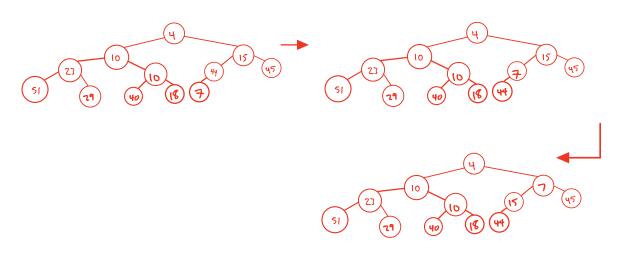




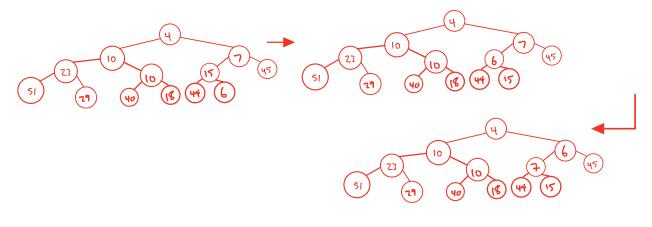
• 18 > 10, no swap



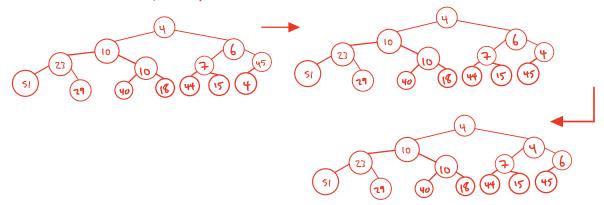
- Insert 7
- 44 > 7, swap them
 15 > 7, swap them
 7 > 4, no swap



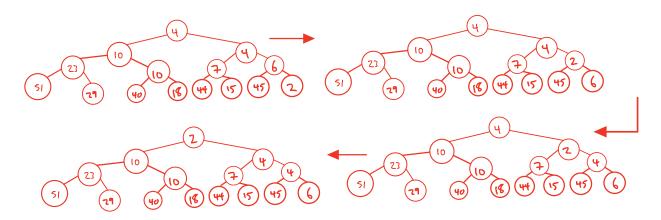
- · Insert 6
- 15 > 6, swap them
- 7 > 6, swap them
- 6 > 4, no swap



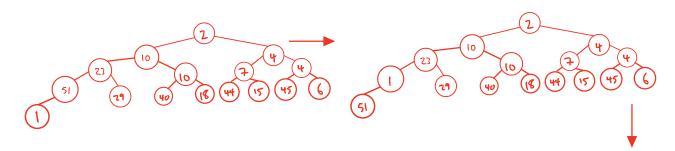
- Insert 4
- 45 > 4, swap them
- 6 > 4, swap them
- 4 = 4, no swap

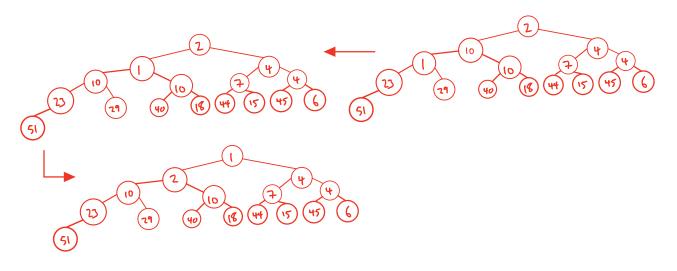


- · Insert 2
- 6 > 2, swap them
- 4 > 2, swap them
- 4 > 2, swap them

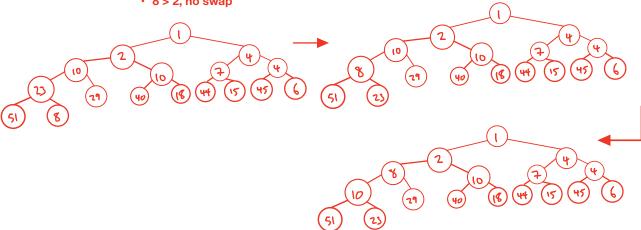


- ______
 - Insert 1
 - 51 > 1, swap them
 - 23 > 1, swap them
 - 10 > 1, swap them
 - 2 > 1, swap them

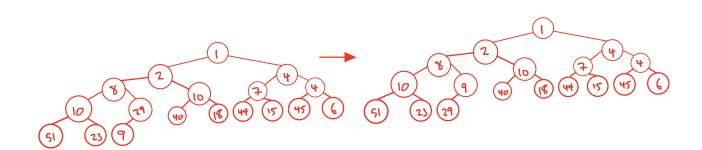




- 23 > 8, swap them10 > 8, swap them
- 8 > 2, no swap



- · Insert 9
- 29 > 9, swap them
- 9 > 8, no swap



Final Heap: 1 2 4 8 10 7 4 10 9 40 18 44 15 45 6 51 23 29

