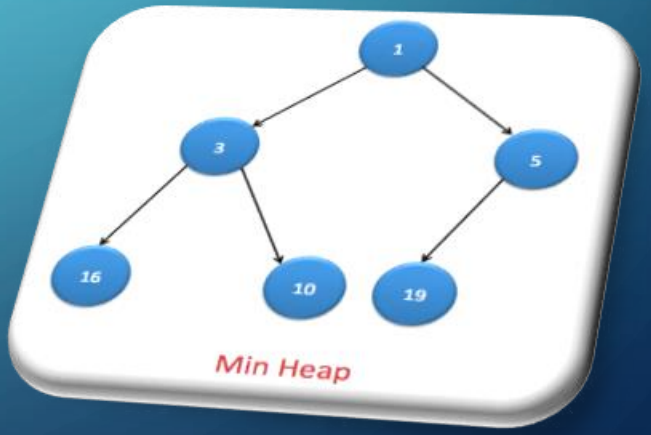
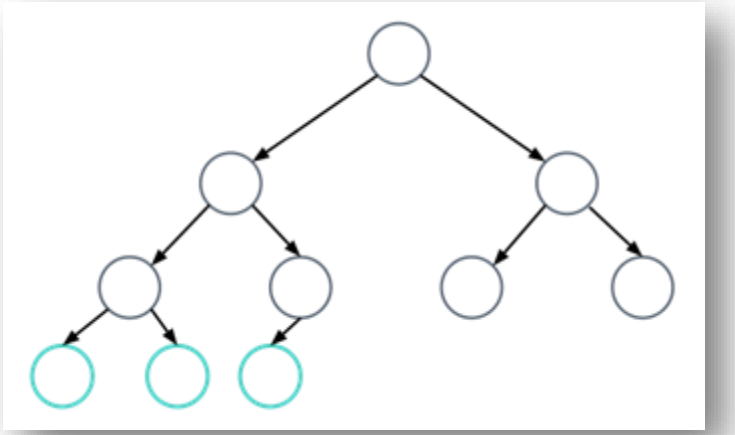
HEAP TREE ALGORITHM

MIN HEAP



Heap Algorithm

- A complete tree is a binary tree, where all the levels are full, except the last one, where all the nodes are packed on the left.
- A heap is a complete binary tree, where all the parents are greater than their children (max-heap). If all the children are greater than their parents it is considered to call the heap a (min-heap)

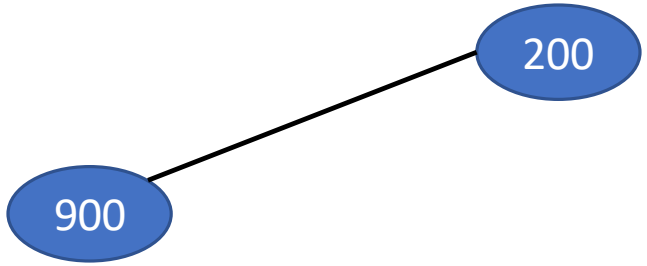


Insert 900

900									

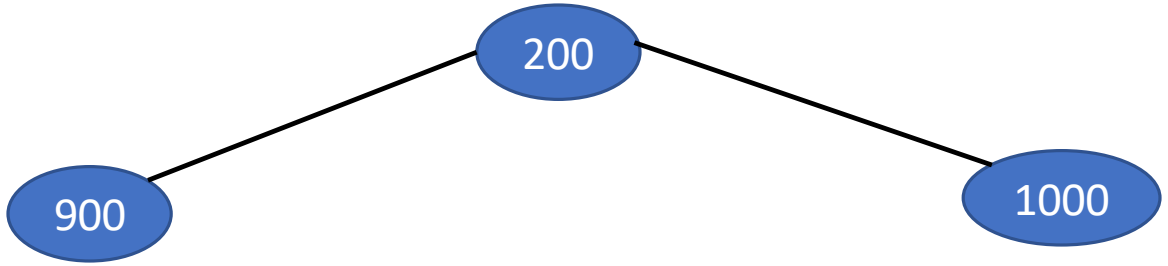
Insert 200

200	**900**								



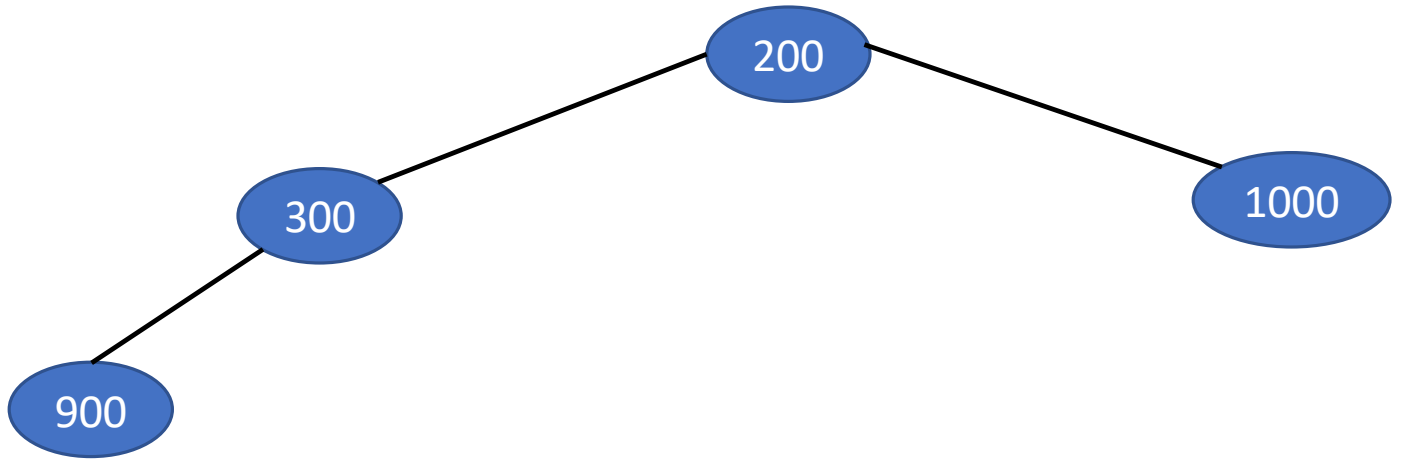
Insert 1000

200	900	1000							



Insert 300

200	300	1000	900						



Insert 100

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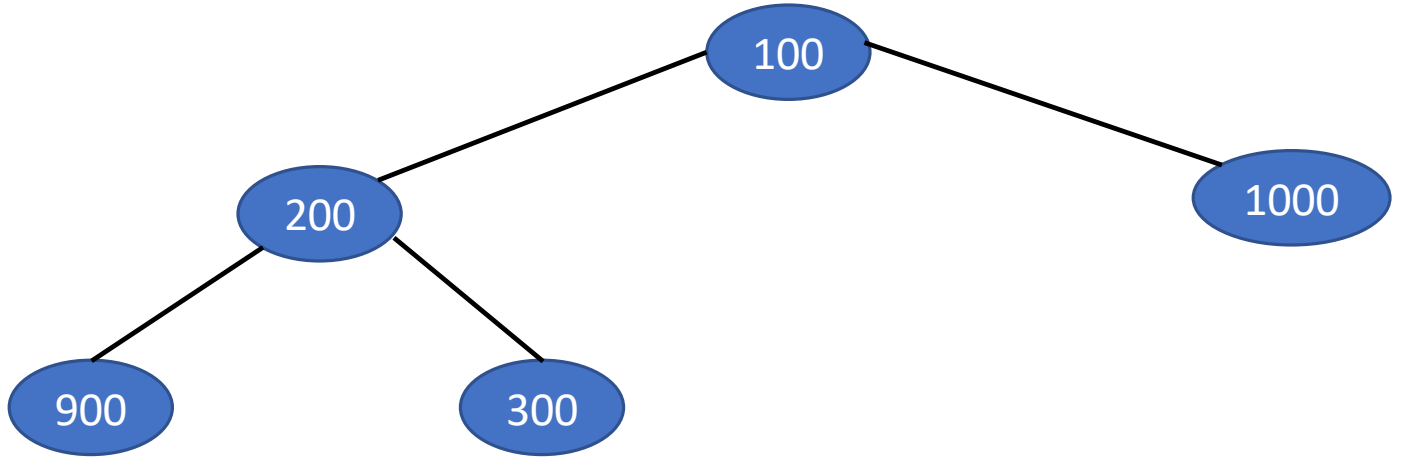
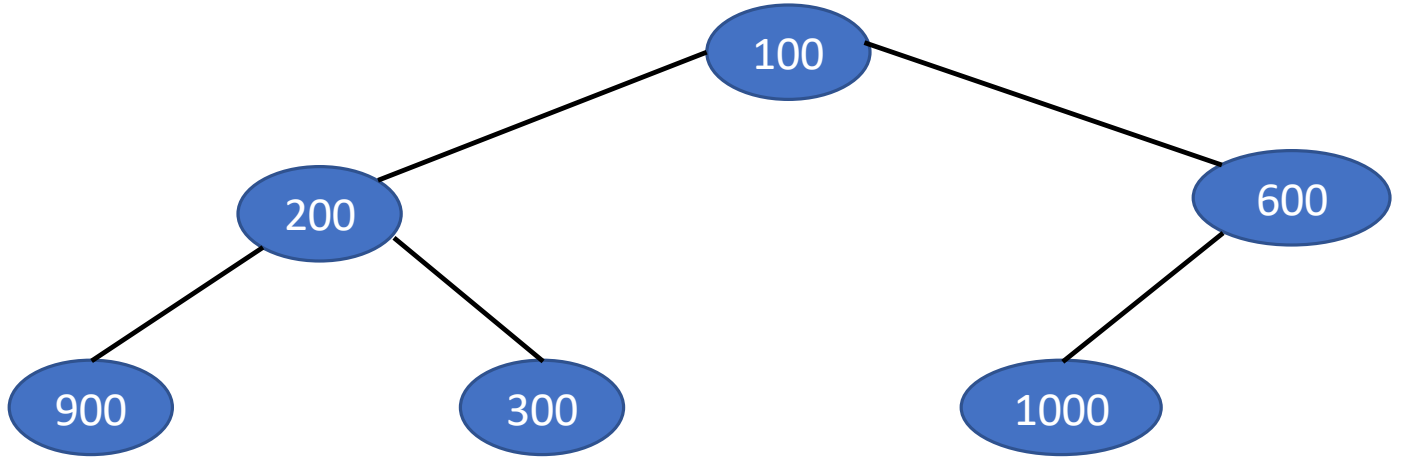


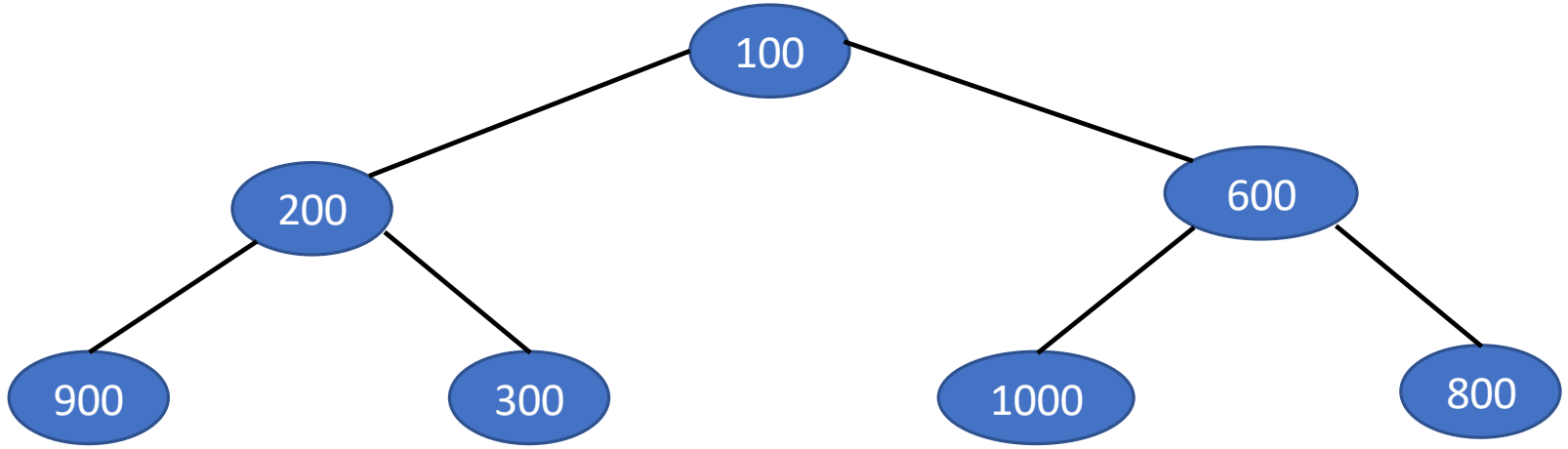
Insert 600

100	200	600	900	300	1000				



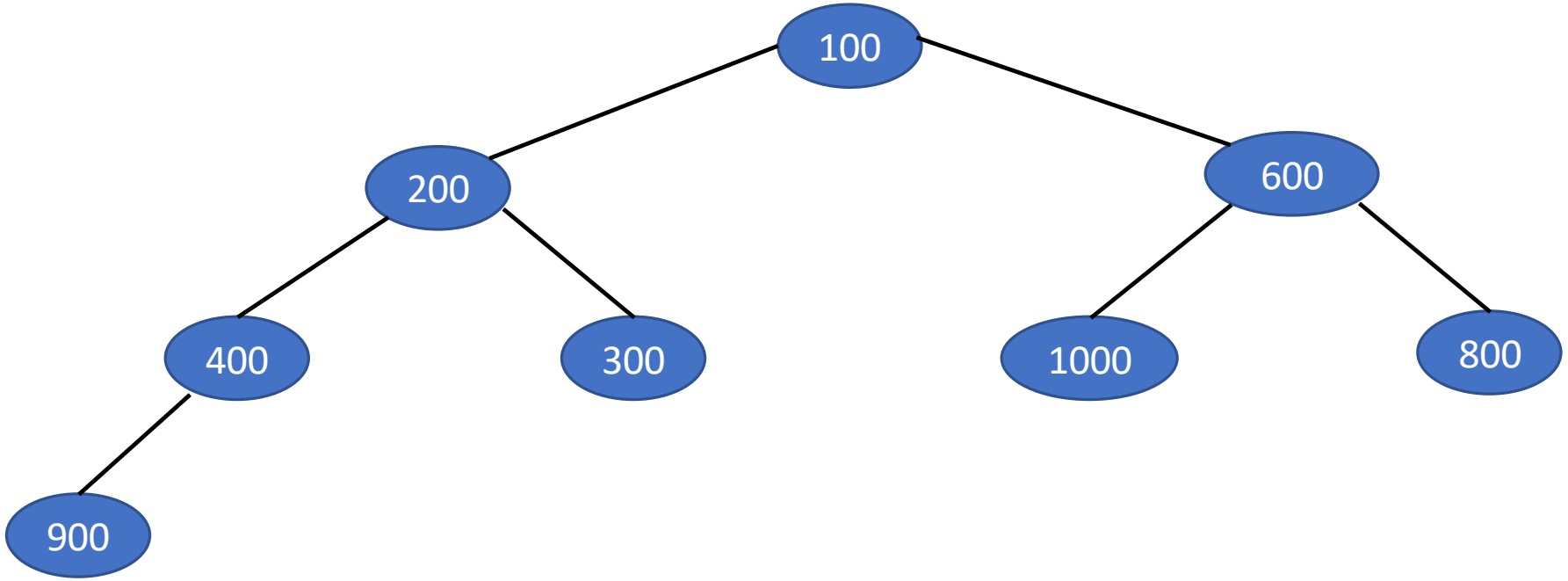
Insert 800

100	200	600	900	300	1000	800			



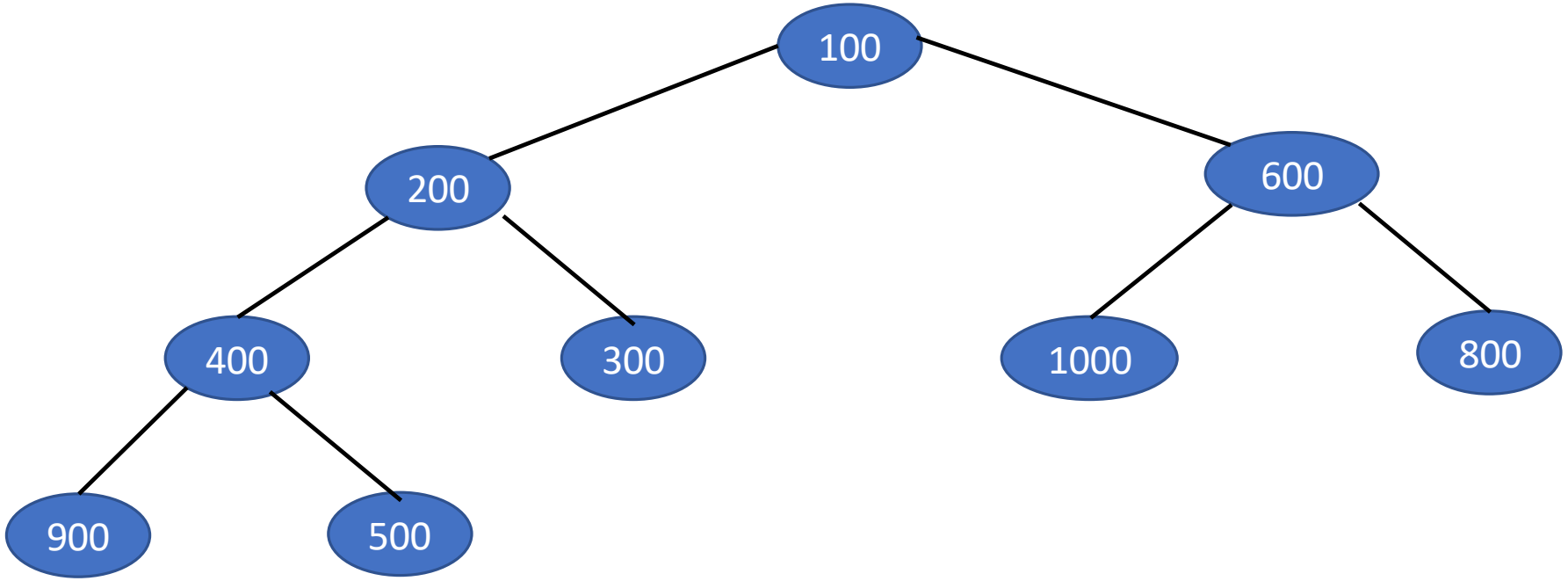
Insert 400

100	200	600	400	300	1000	800	900		



Insert 500

100	200	600	400	300	1000	800	900	500	



Insert 700

100	200	600	400	300	1000	800	900	500	700