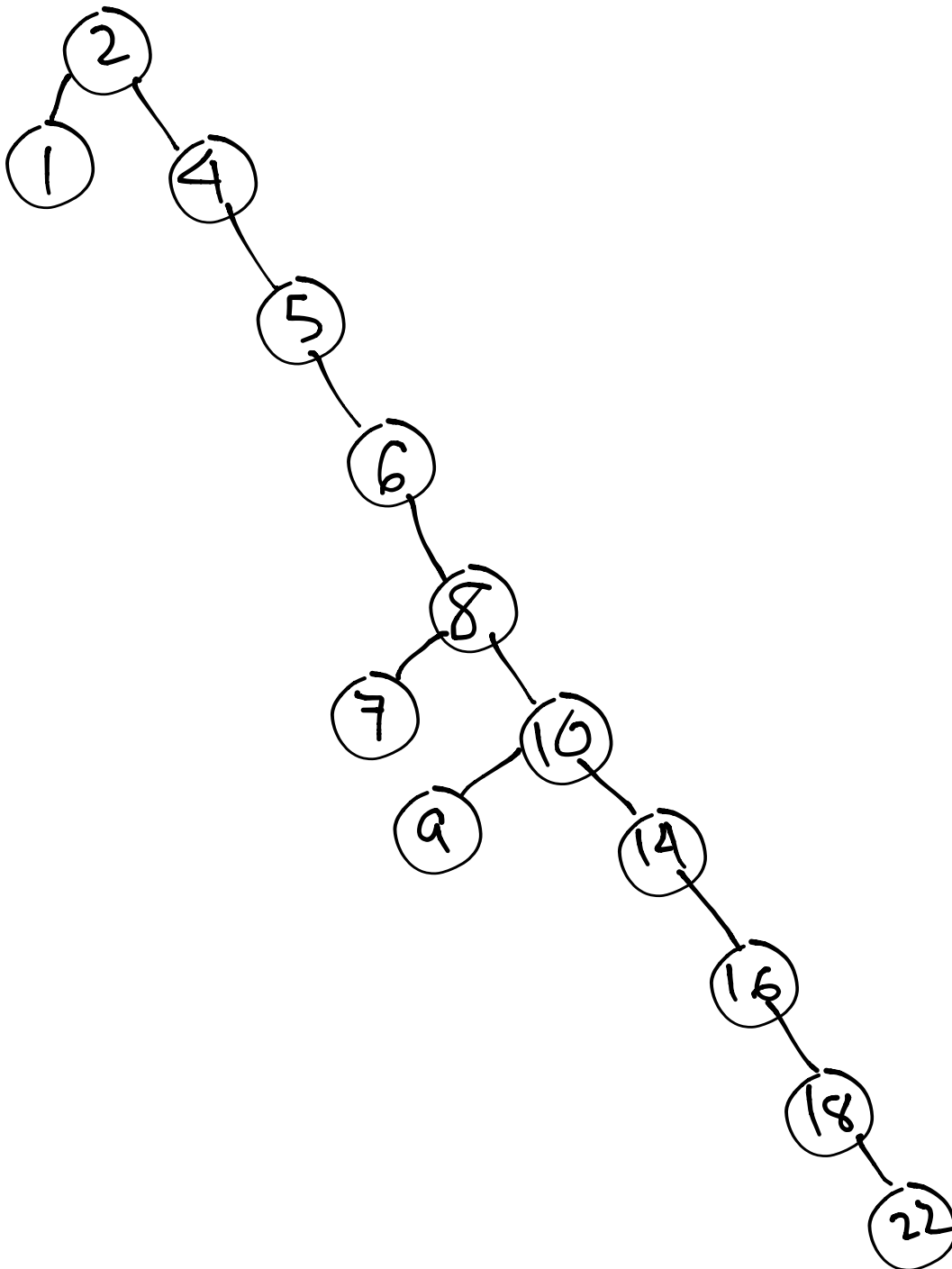
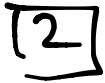


A. Simple Binary Tree

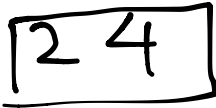


B. B-Tree 2-3

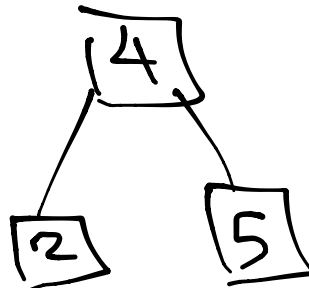
Insert 2:



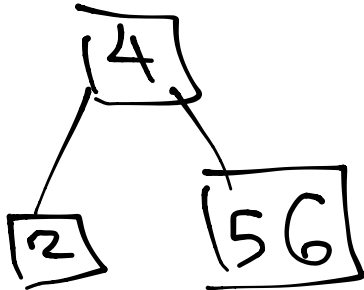
Insert 4:



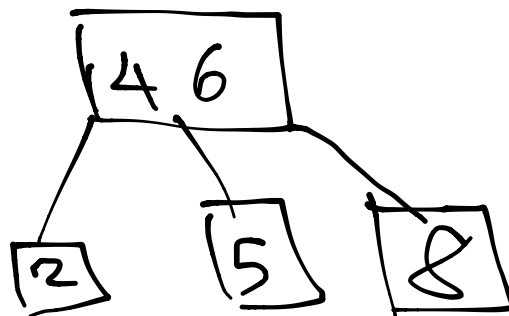
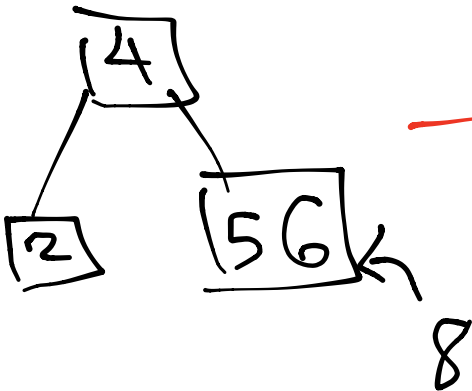
Insert 5:



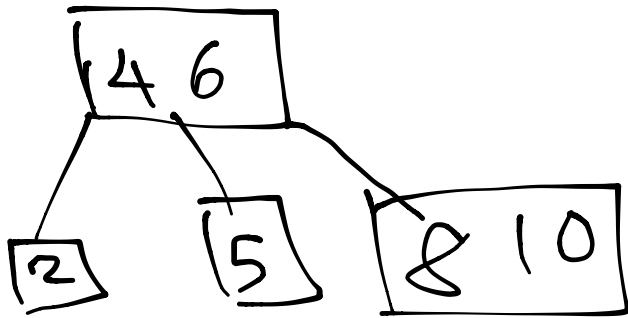
Insert 6:



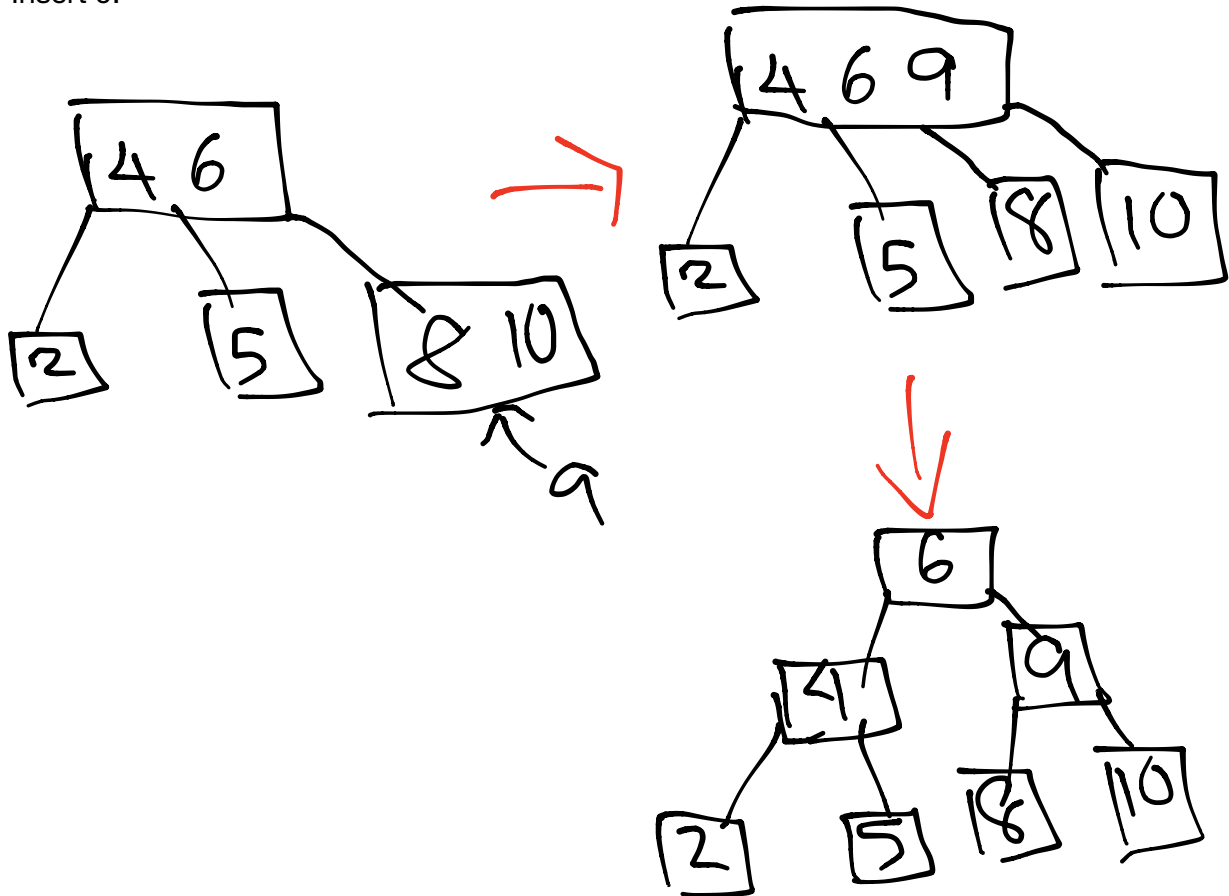
Insert 8:



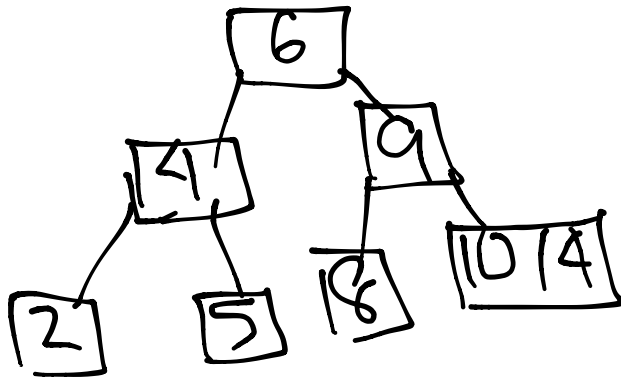
Insert 10:



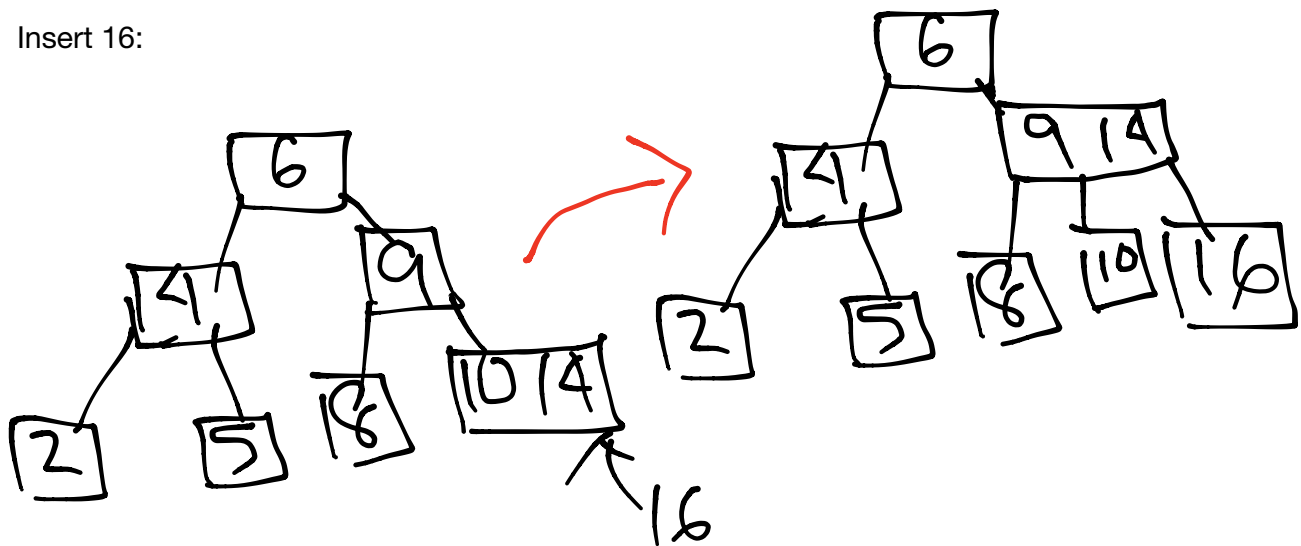
Insert 9:



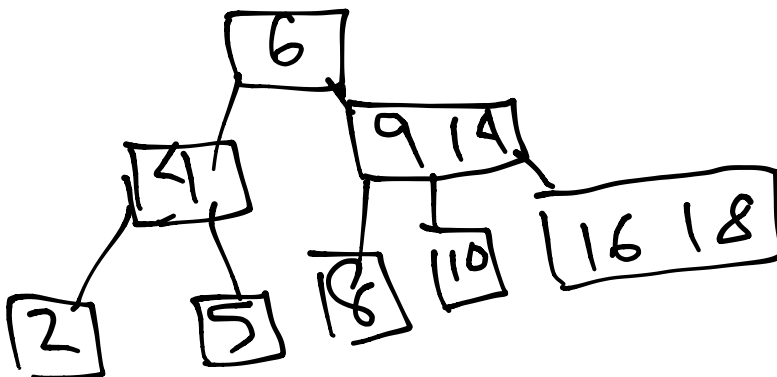
Insert 14:



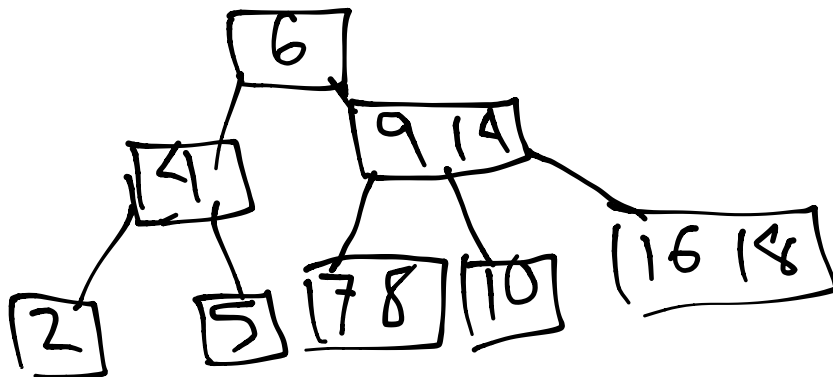
Insert 16:



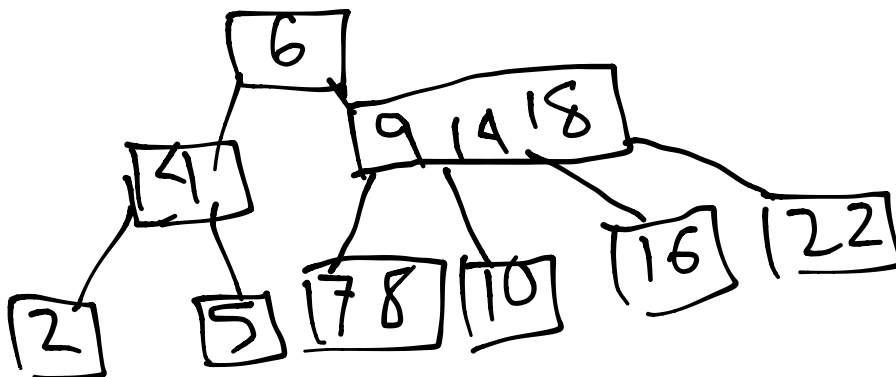
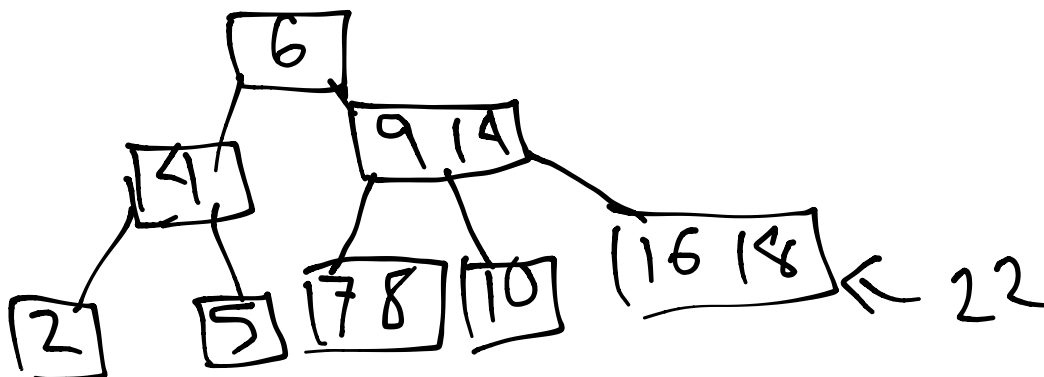
Insert 18:



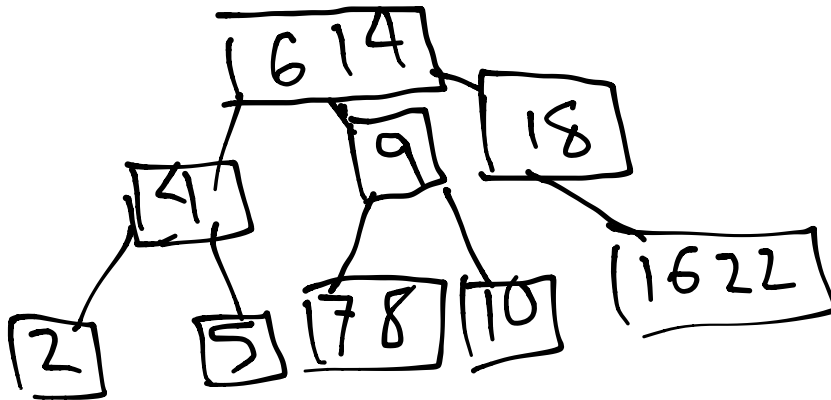
Insert 7:



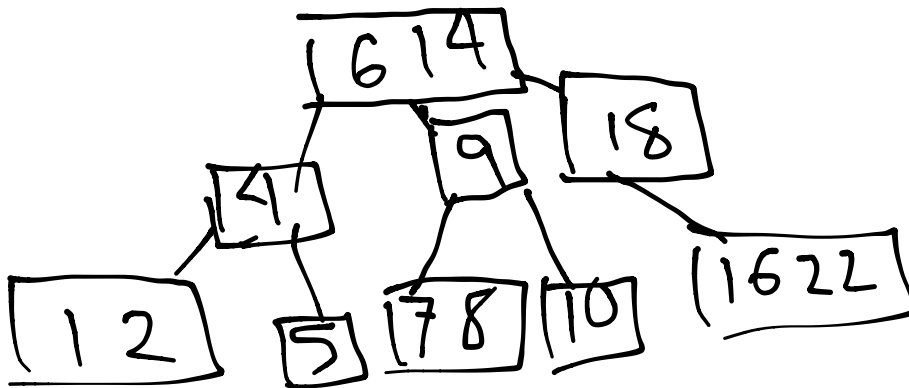
Insert 22:



1



Insert 1:



C. The main difference between the simple binary tree and and B-Tree 2-3 is that a simple binary tree can only have 2 child nodes max while 2-3 has more. The advantage of B-Tree is that searching is faster since each node can contain 2 data.