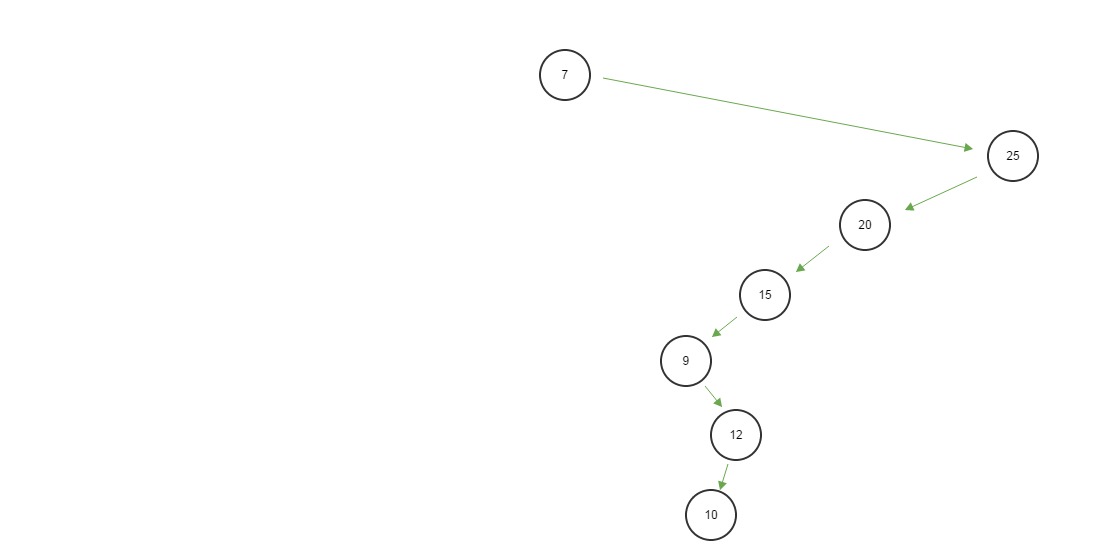
Gray Houston

ghousto

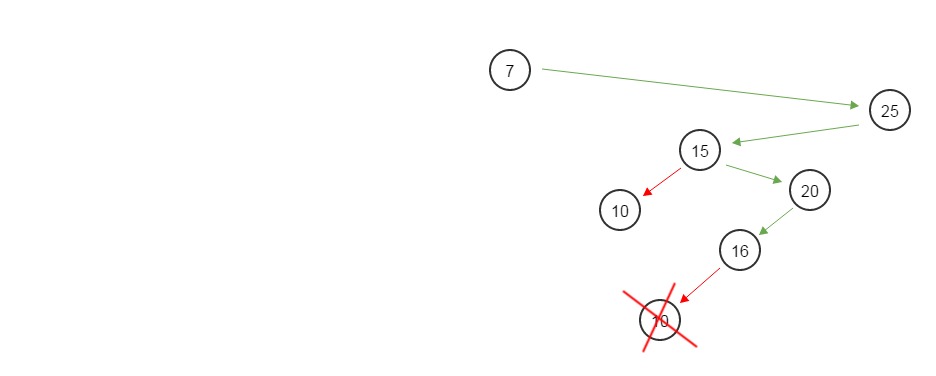
0026483532

Problem Set 1

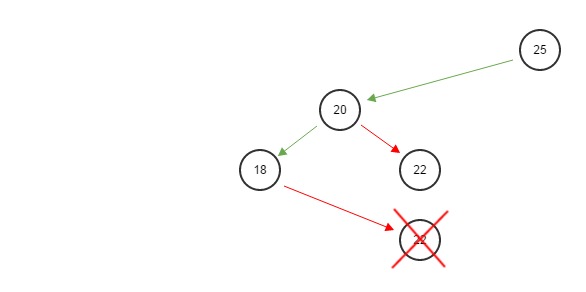
1. 7 → 25 → 20 → 15 → 9 → 12 → 10

 Tree exists

1. 7 → 25 → 15 → 20 → 16 → 10 Not a valid tree

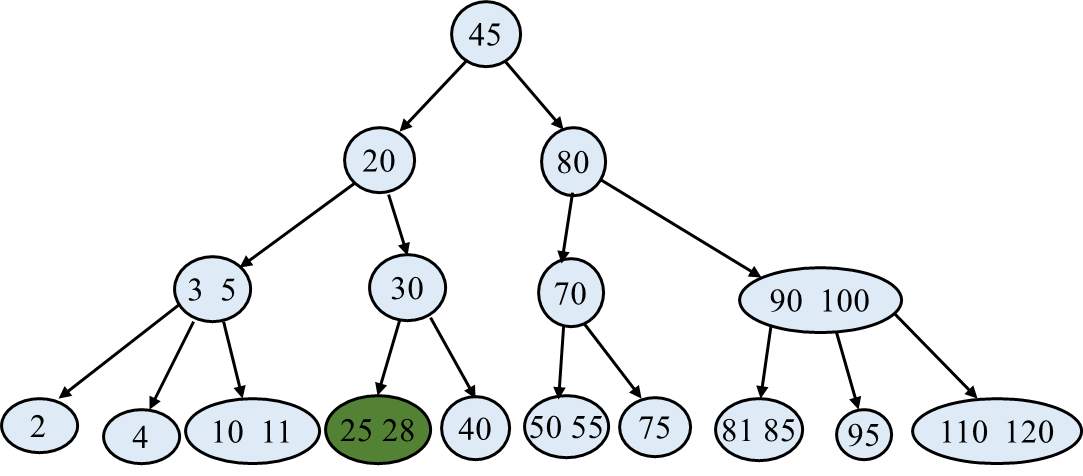


1. 25 → 20 → 18 → ~~22 → 16 → 10~~

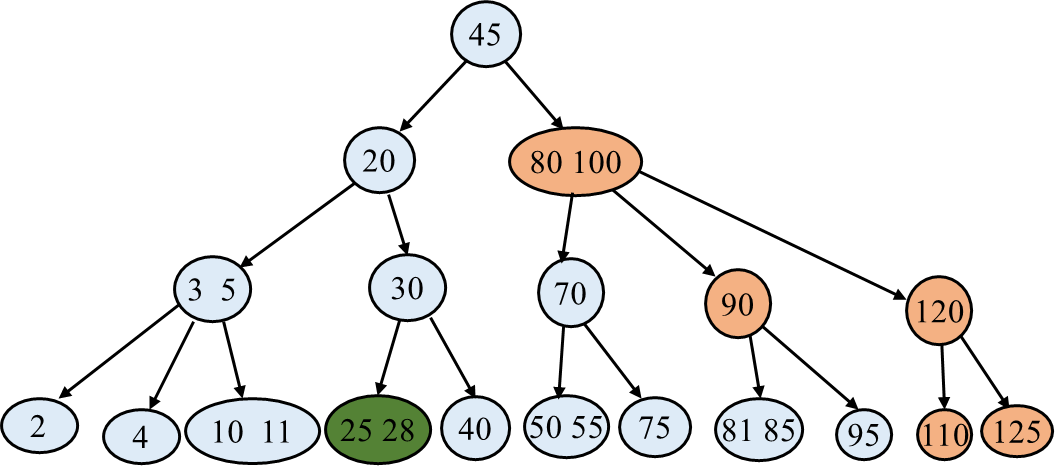


Therefore, this is not a valid tree.

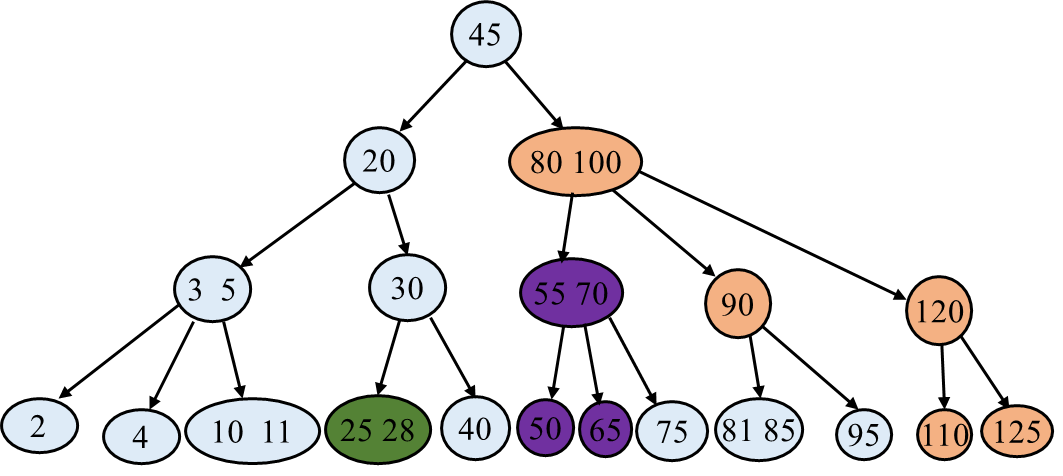
1. insert(28)

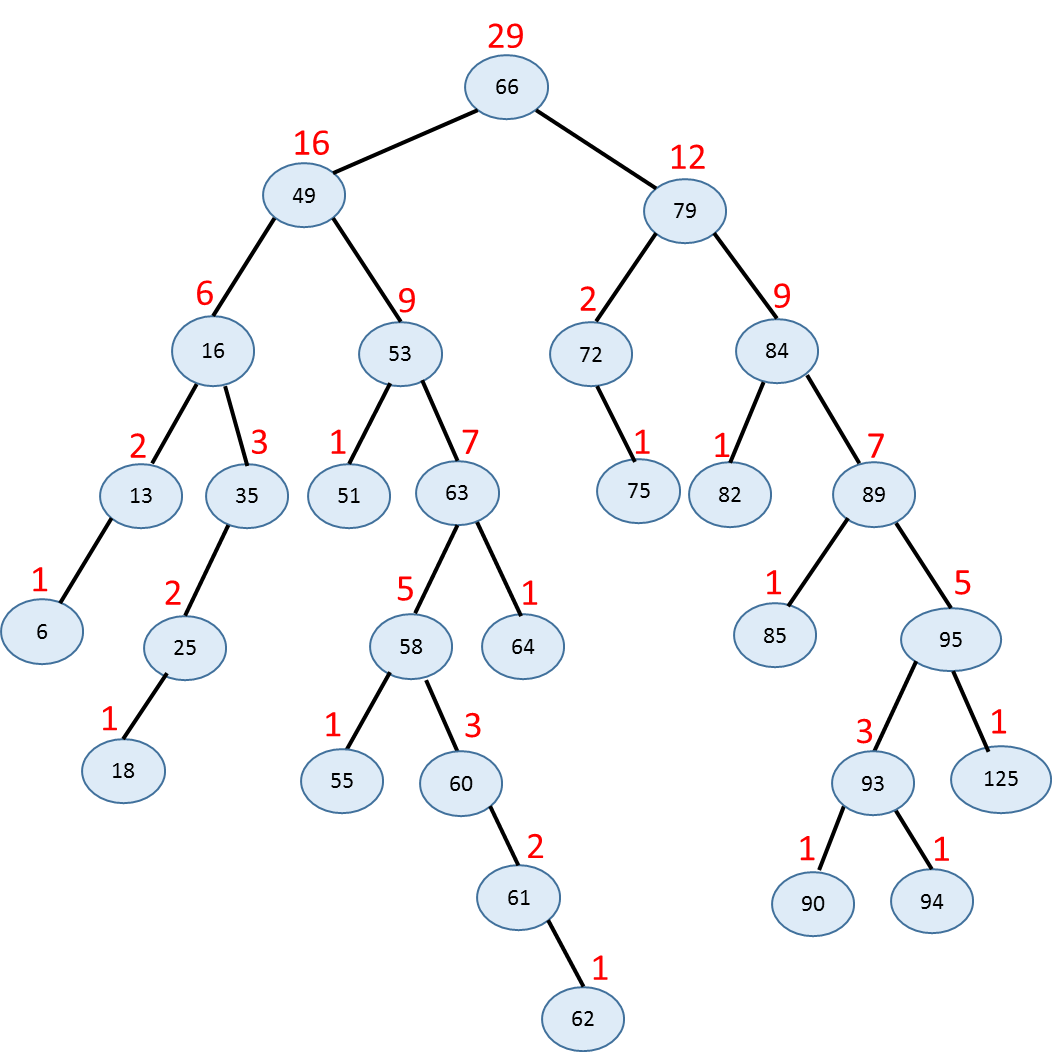


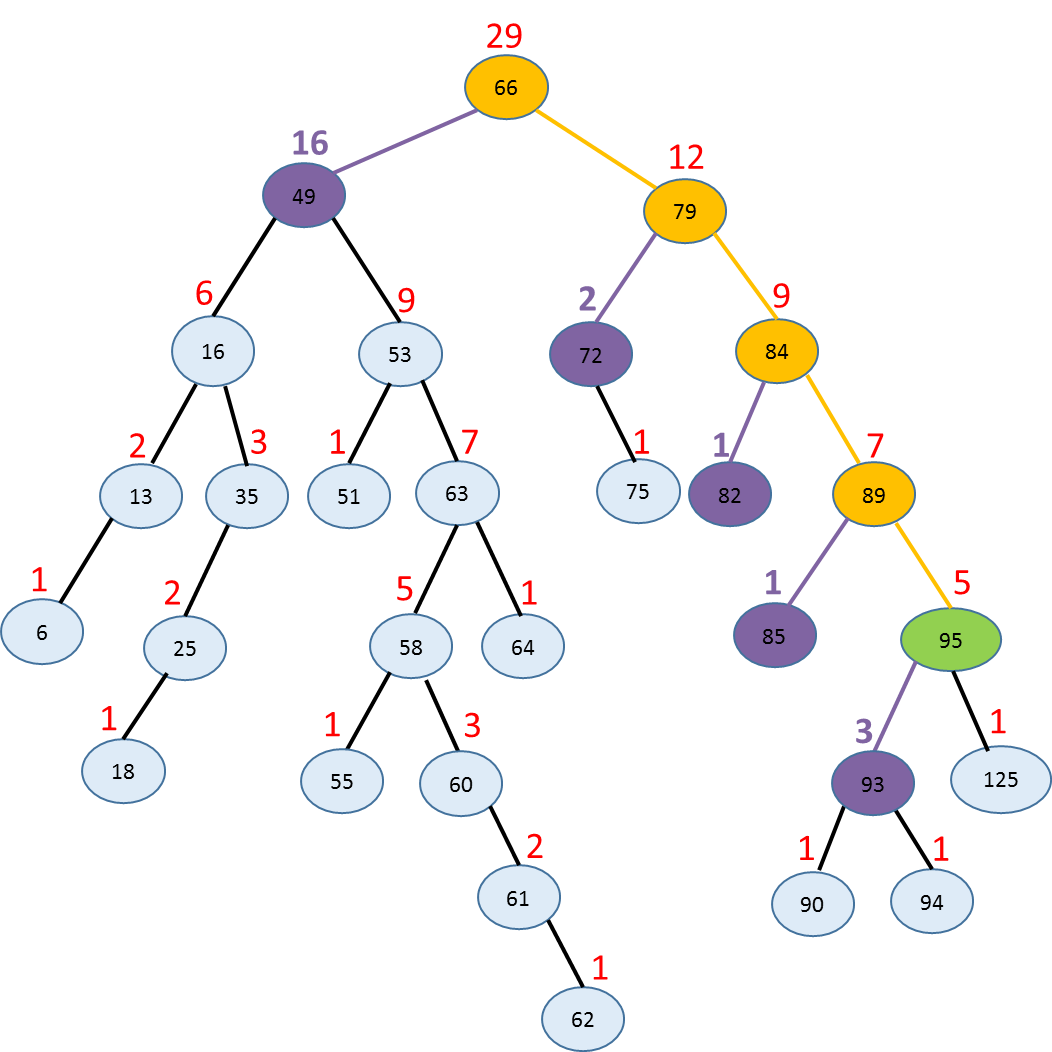
1. insert(125)



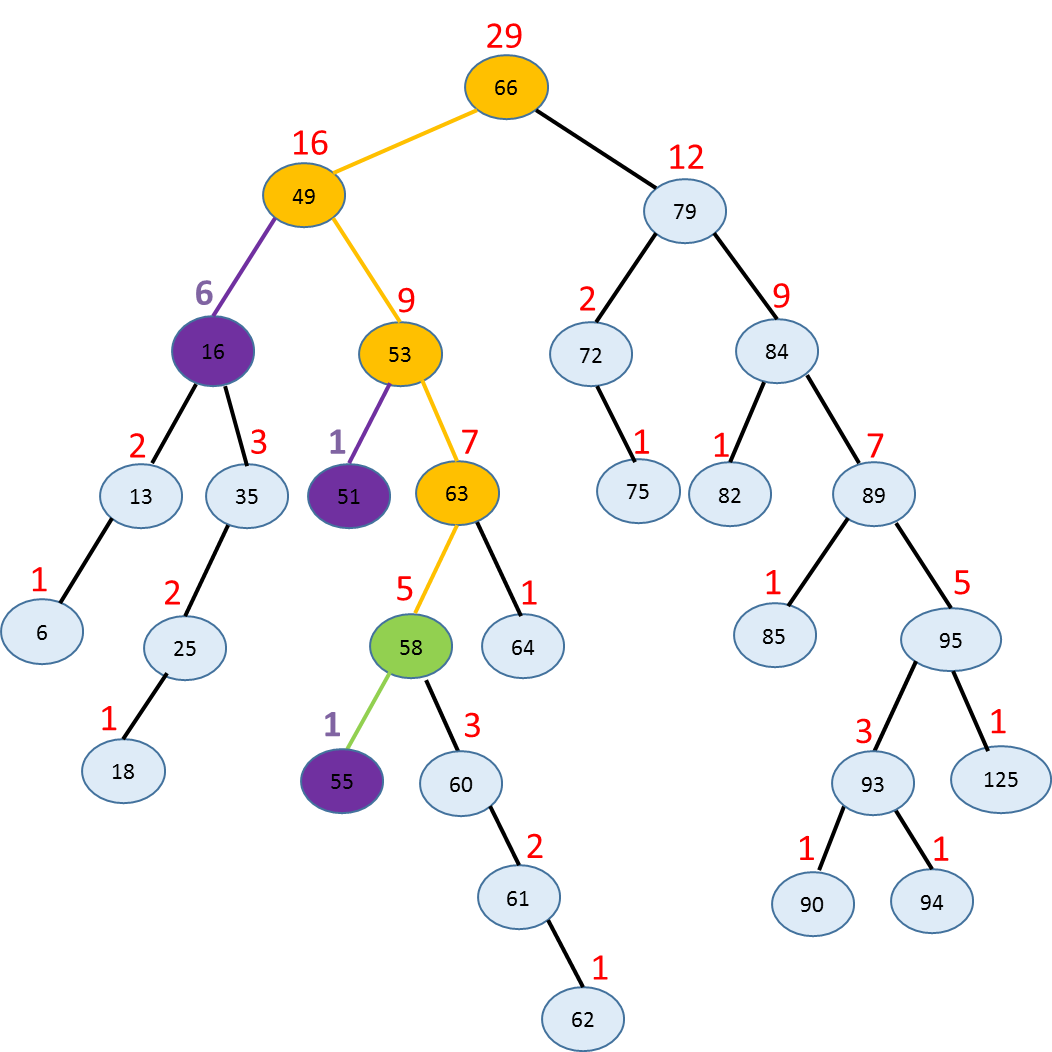
1. insert(65)







Rank(95) = (16+1) + (2+1) + (1+1) + (1+1) + 3 = 27



Rank(58) = (6+1) + (1+1) + 1 = 10