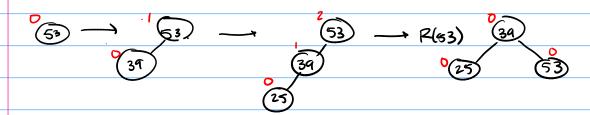
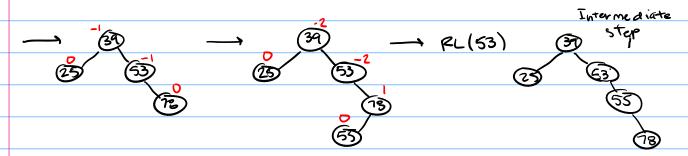
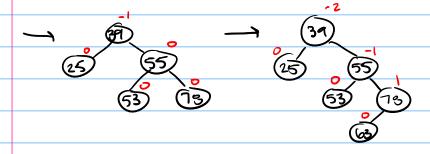
1. Insert the following nodes 53, 39, 25, 78, 55, 63







Pre-Order Traversal:

ROOT - Left Child - Right Child 39, 25, 55, 63, 18, 63

In-Order Traversal:

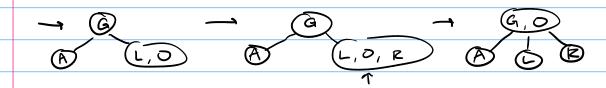
Left Child - ROOT - Right Child 25, 39, 53, 55, 63, 78

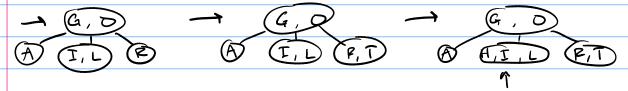
Post - Order Transvisal:

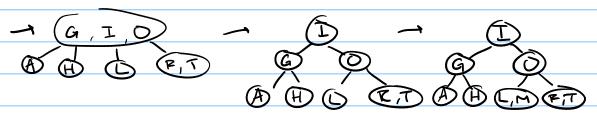
Left Child - Right Child - Pout 25, 63, 53, 78, 55, 39

2. Trisert A. L. G. O. R. I.T. H. M in 2.3 wee



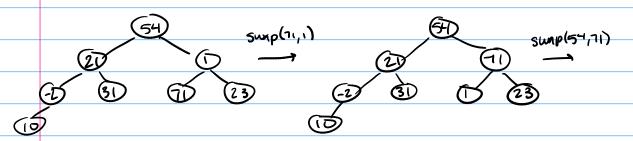


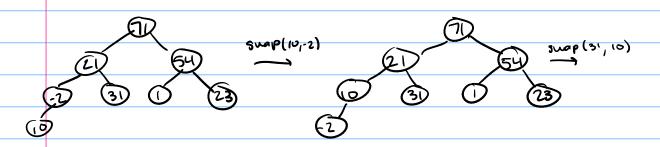


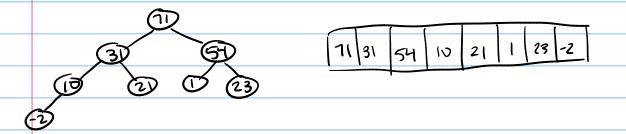


3. Hash function: h(k) = k mod & input: 29,13,12,84,31,27,44,62

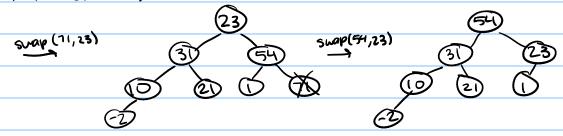
4. Apply HeapSort to 57,21,1,-2,31,71,23,10



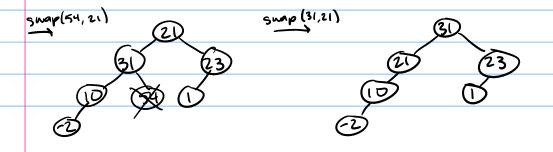




Max Delete (71):



Max Delete (54):



Max Delete (31): Max Delete (23): suap (23,-2) Max Defete (21): sug 1 (21, -2) Max Delete(10): sug (10,1) MaxDelete(1): suap (1,-2) (2)

MaxDelete(-2): (3)

after

Max Delete(-2)

23 | - 2 71/31 10/21 1 54 After 23 10 21 1 -2 71 54 31 Max Delete(71) ARtev -2 54 71 31 21 23 (0 Max Delete(54) After MaxOclete(31) 31 54 71 23 21 1 10 -2 After Max Delete (23) 21 10 1 23 31 54 71 -2 After Max Delete (21) 21 23 31 54 71 10 -2 1 AFter Max Delete(10) 1 -2 10 21 23 31 54 71 Afer MaxDelete(1) -2 | 1 10 21 23 31 54 71

-2 1 10

23

21

31 54 71