

1,
NAME:

Zubair

ID. 159241

paper . date
structure

Step 2

Step 1a: Element 59
39 (27, 7, 14, 13, 4)
11 9 1

26, 28, 10, 14, 13, 55

Step 1b: Element 58
26 (27, 14, 13, 55)

56, 15, 24, 16, 13, 55
48, 26, 24, 14, 13, 55

Step 1c: Element 16
43, 26, 24, 46, 13, 55
46, 26, 10, 34, 13, 55

15, 16, 56, 34, 43, 55
44, 14, 26, 56, 43, 55

Step 1d: Element 13
40, 15, 36, 29, 43, 55
46, 15, 36, 29, 55
30, 28, 13, 14, 10, 55



(3)

40, 43, 45, 56, 59, 53
40, 43, 45, 56, 59, 55

Step 5

Element 55

40, 43, 45, 56, 59, 53

40, 43, 45, 56, 55, 59

\Rightarrow 40, 43, 45, 55, 56, 59

11.

10, 15, 30, 17, 33, 36, 25, 13, 15
40, 30, 40, 30



Verify using in order tree

40, 10, 30, 36, 35, 33, 25, 25, 17, 15

the list is sorted in REV

Step 1. Element 59
(56, 57, 58, 59, 60)
56 57 58 59 60

56, 57, 58, 59, 60, 61, 62

Step 2. Element 56
56, 57, 58, 59, 60

56, 57, 58, 59, 60, 61, 62
56, 57, 58, 59, 60, 61, 62

Step 3. Element 56
56, 57, 58, 59, 60, 61, 62
56, 57, 58, 59, 60, 61, 62

56, 57, 58, 59, 60, 61, 62
56, 57, 58, 59, 60, 61, 62

Step 4. Element 56
56, 57, 58, 59, 60, 61, 62, 63, 64
56, 57, 58, 59, 60, 61, 62, 63, 64
56, 57, 58, 59, 60, 61, 62, 63, 64



(1) order tensor

H, t, G, X, D, F, A, M, I

(2) order tensor

t, H, X, G, D, A, F, M,

(3) order tensor

H, G, D, X, F, M, A, I, t

in order

A, X, D, t, T, A, B, -, R

pr. order

t, X, A, D, -, A, T, B, R

post order

A, D, X, T, B, A, B, -, t