

1a.

16, 34, 35, 38, 39, 41, 44, 45, 55, 63, 64, 65, 72

1b.

45, 38, 34, 16, 35, 41, 39, 44, 65, 63, 55, 64, 72

1c.

16, 35, 39, 44, 34, 41, 38, 55, 64, 63, 72, 65, 45

1d.

The tree has a height of 4. The nodes on level 2 are; 38, 65

2a.

$((48 - (7 \% 2))) / 24 * ((18 - (5 * 2)) + 12)$

2b.

$48 \ 7 \ 2 \% - 24 / 18 \ 5 \ 2 * - 12 + *$

*using a space as a delimiter

2c.

20

2d.

~39.16667

3b.

index	value
0	14
1	73
2	21
3	7
4	null
5	19
6	6
7	null
8	51
9	null
10	null
11	null
12	null
13	null
14	45

4.

