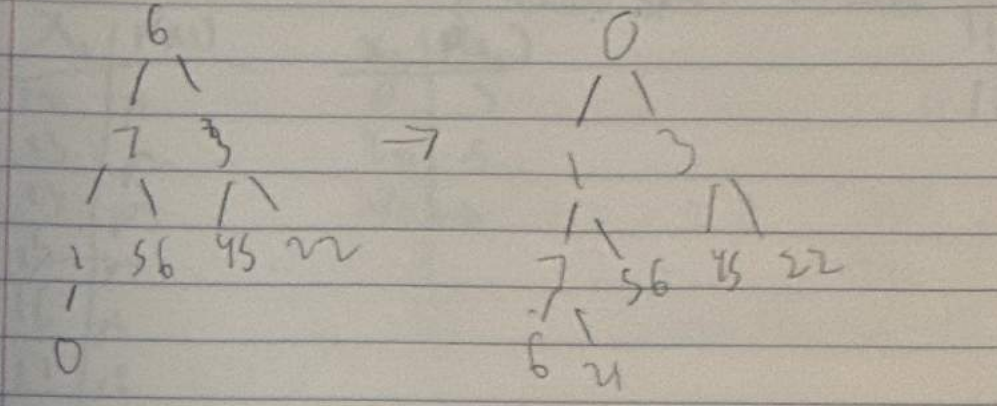
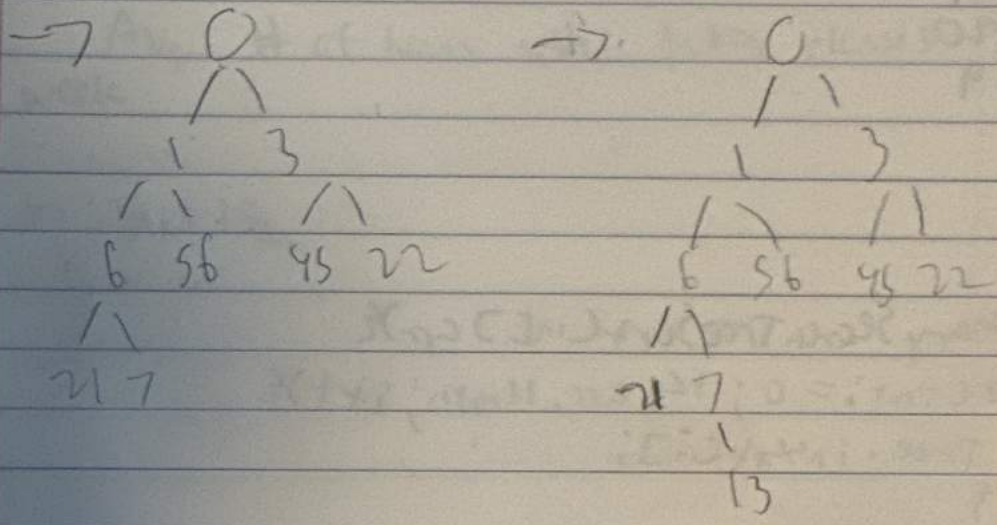
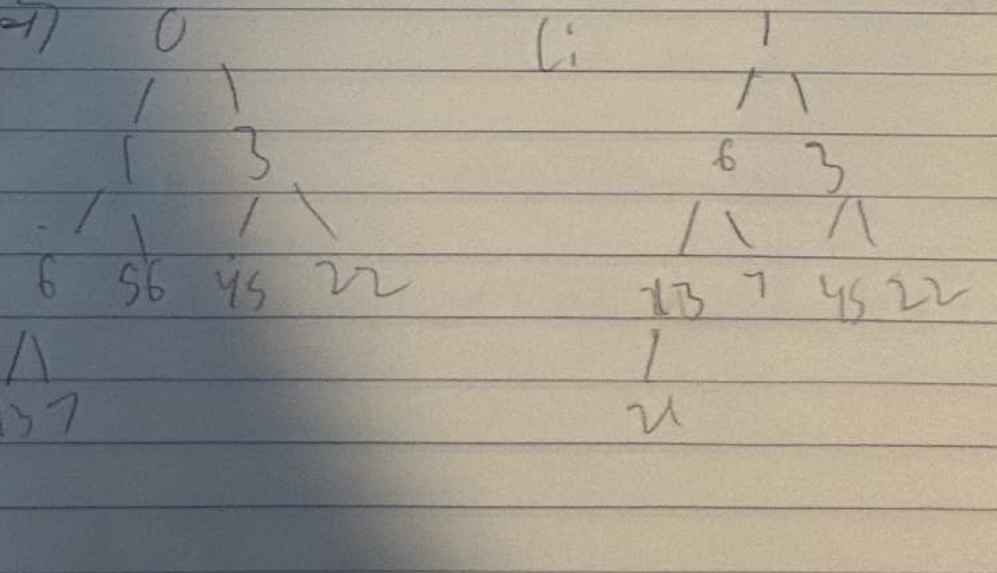
1.


6
7 3
1 56 45 22
0
0
3
7 56 45 22
6 21


0
3
6 56 45 22
21 7
0
3
6 56 45 22
21 7
13

3


0
3
6 56 45 22
13 7
21
i
6 3
13 7 45 22
21

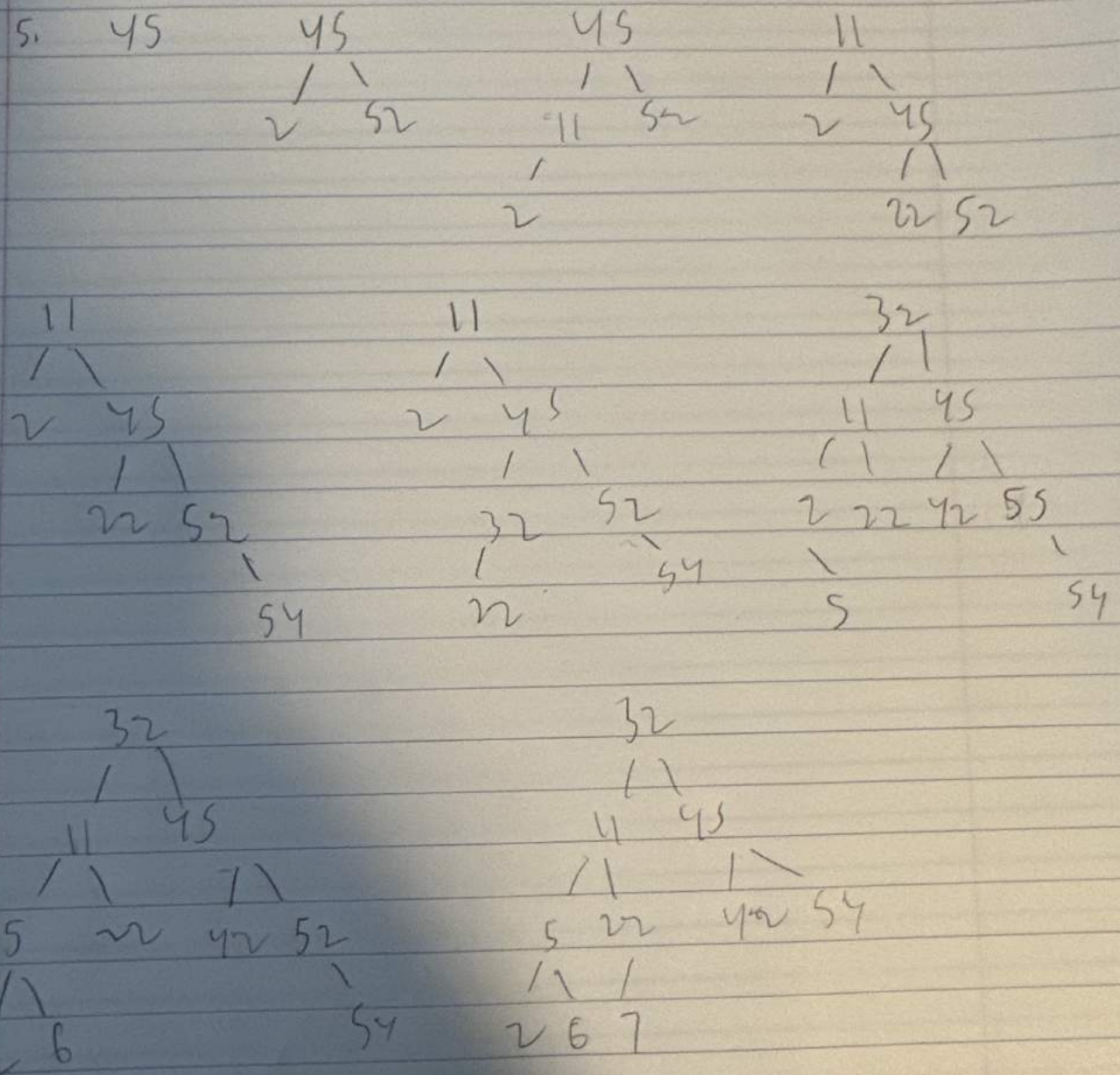
2.

Ind	values
0	22
1	11
2	31
3	
4	
5	
6	
7	
8	31
4	20
10	9

20, 4, 22, 11, 31

4. The for loop gives it the runtime of O(N) and the insert is O(logN) which is combines to make it O(NlogN)

5.



6. Heaps has O(1) complexity, while AVL trees have O(n).