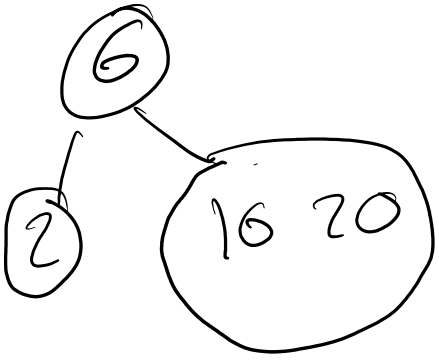
Q1a)

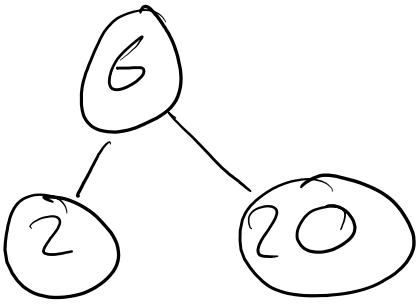
Insert '2'

Insert '20'

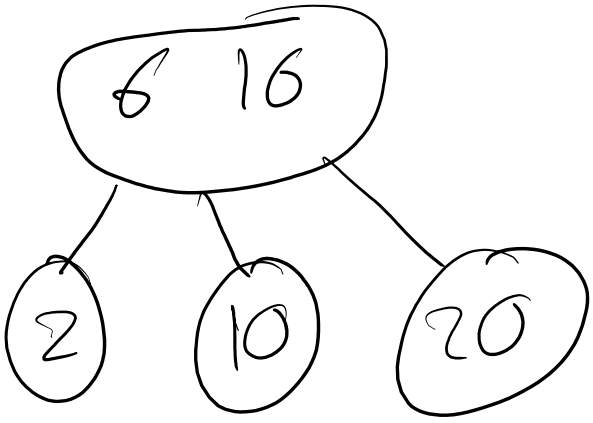
Insert '6'



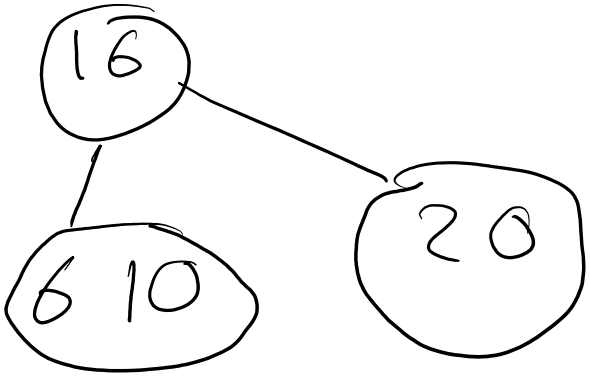
Insert '6'



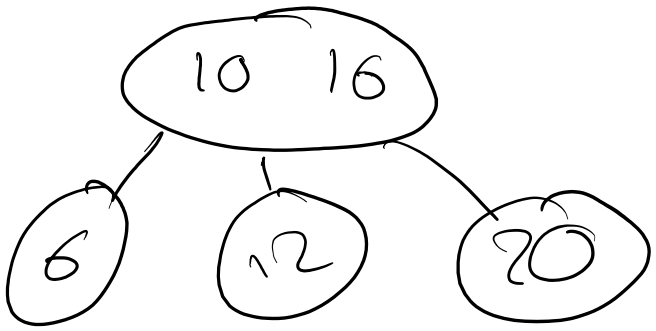
Insert '10'



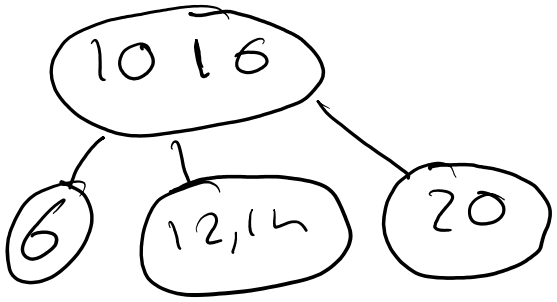
Delete '2'



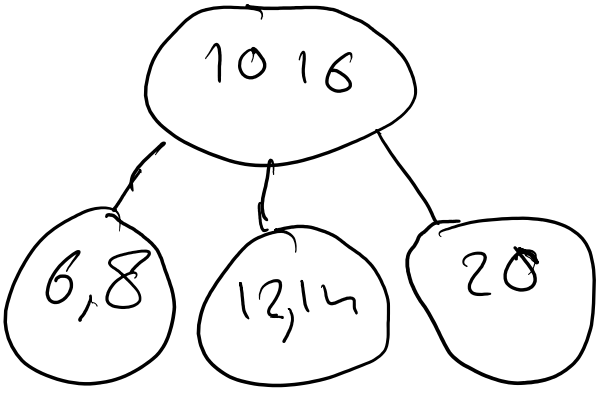
Insert '12'



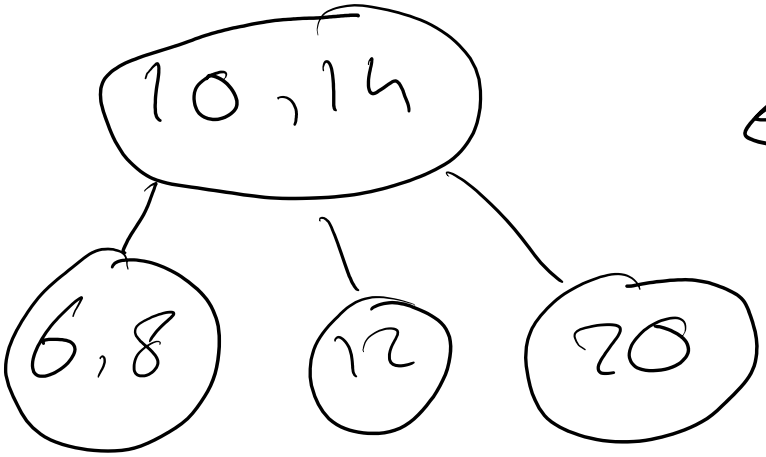
Insert '14'



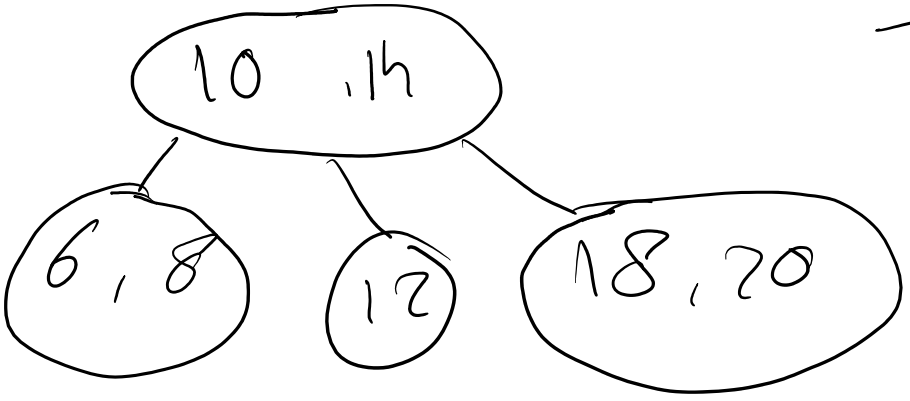
Insert '8'



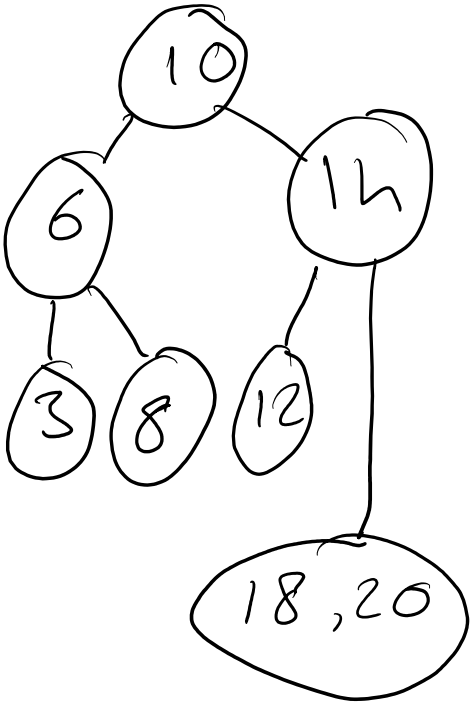
Delete '16'

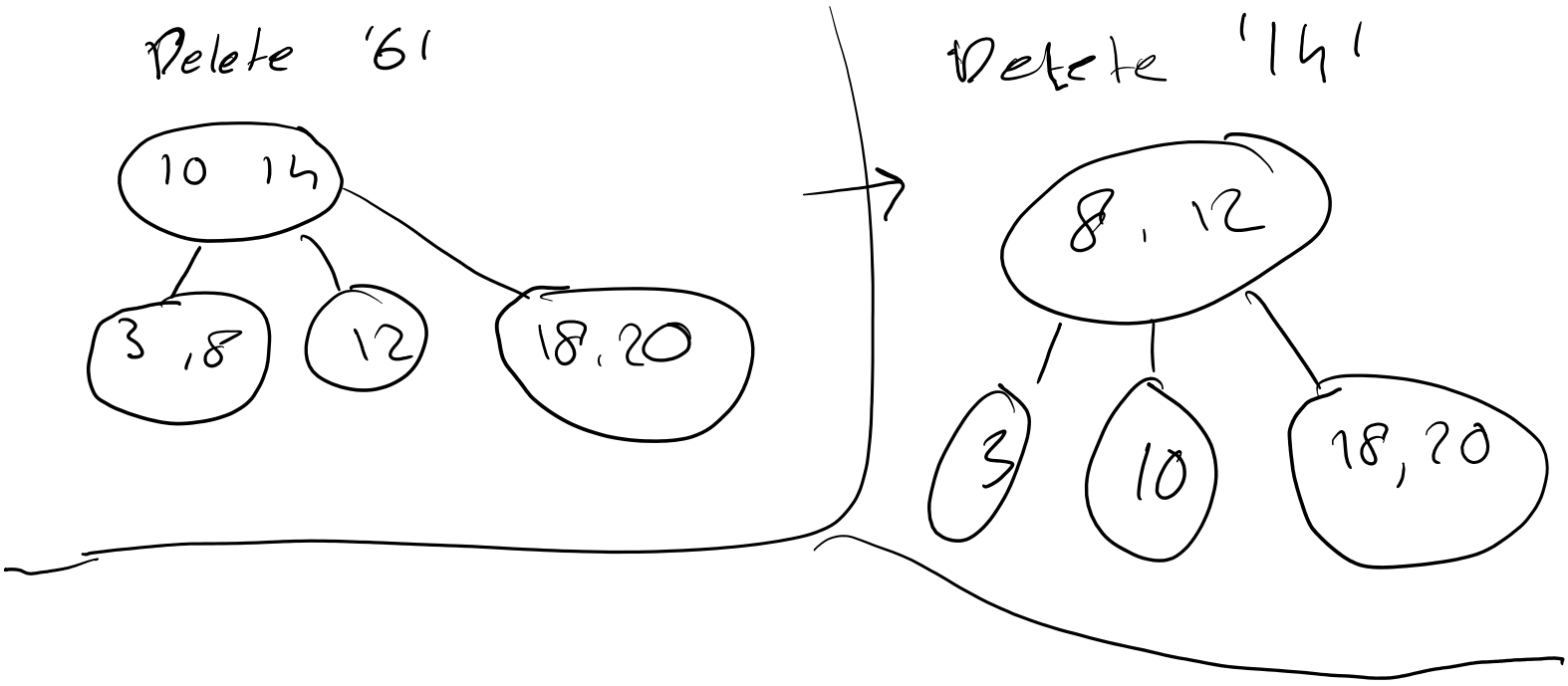


Insert '18'

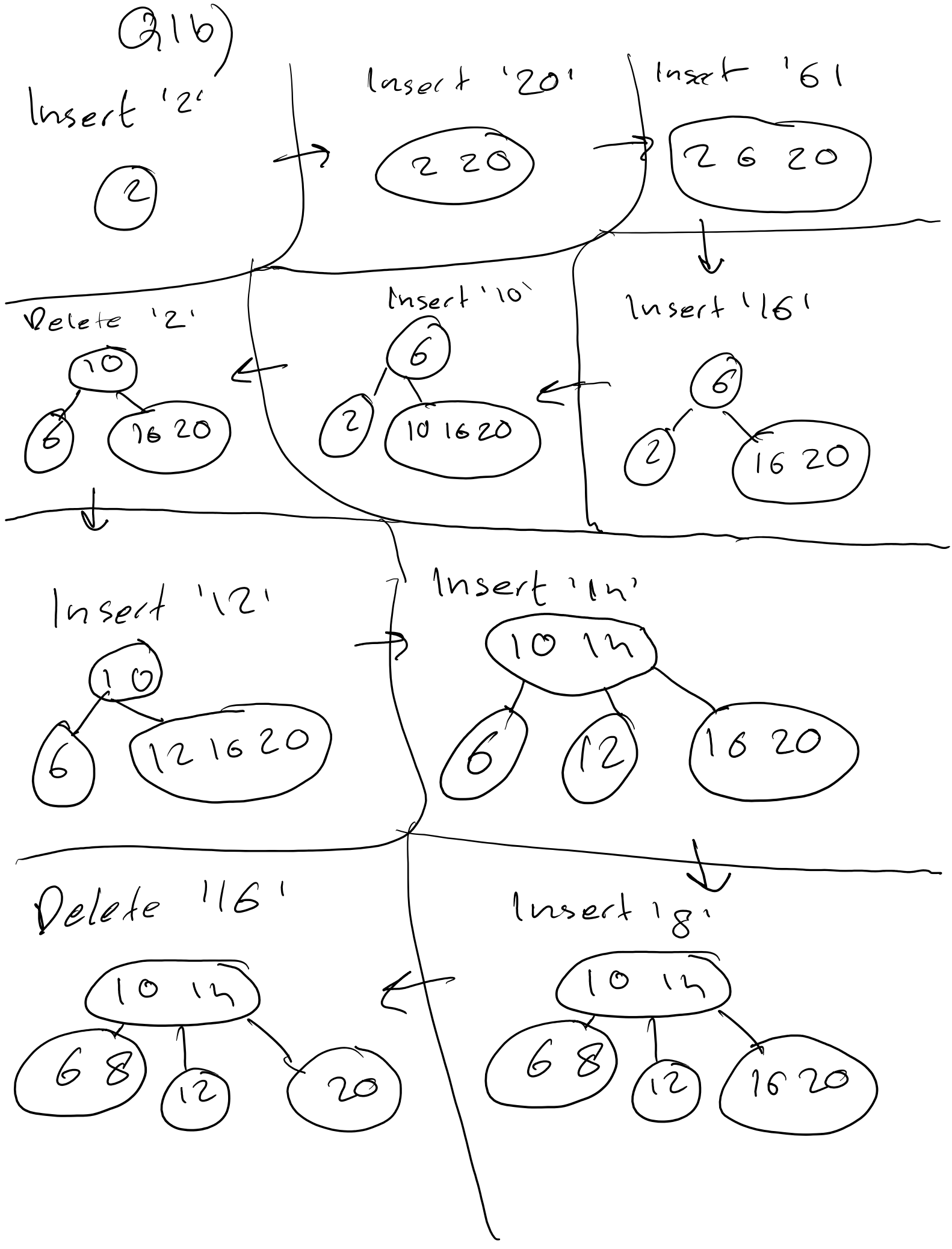


Insert '3'

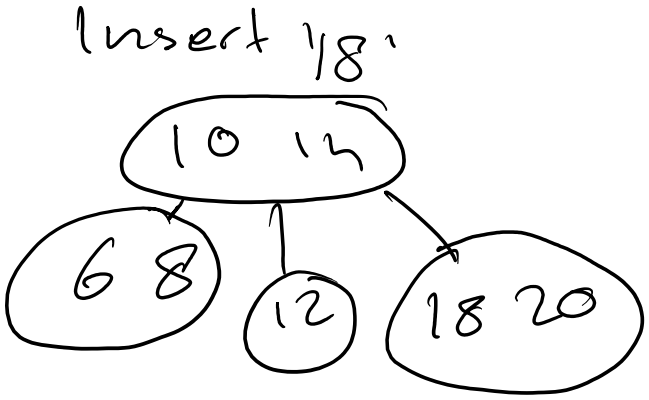


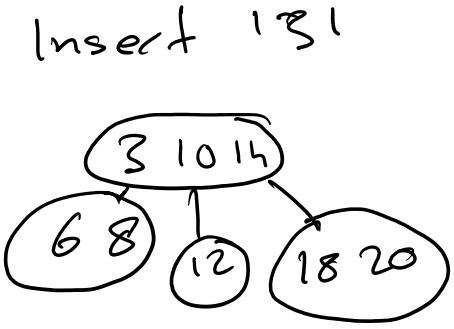

Delete '6'
10 14
3 , 8
12
18 . 20
Delete '14'
8 . 12
3
10
18 , 20

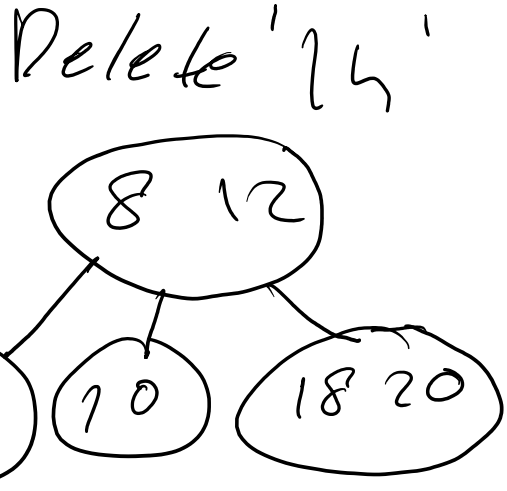
(Q1b)

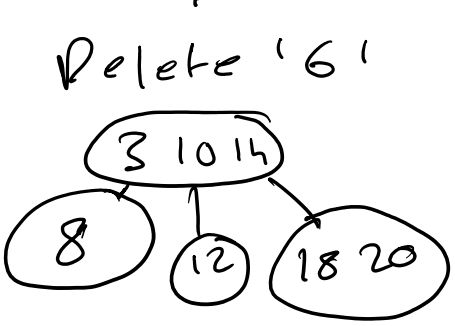

Insert '2'
2
Insert '20'
2 20
Insert '6'
2 6 20
Delete '2'
10
6
16 20
Insert '10'
6
2
10 16 20
Insert '16'
6
2
16 20
Insert '12'
10
6
12 16 20
Insert '14'
10 14
6
12
16 20
Delete '16'
10 14
6 8
12
20
Insert '8'
10 14
6 8
12
16 20

Insert '18'


Insert '18'
10 14
6 8
12
18 20


Insert '3'
3 10 14
6 8
12
18 20


Delete '14'
8 12
3
10
18 20


Delete '6'
3 10 14
8
12
18 20

Q2a)

0	26
1	
2	54
3	
4	17
5	69
6	45
7	58
8	32
9	60
10	
11	
12	64

Successful

≈ 2.125

Unsuccessful

≈ 5.78

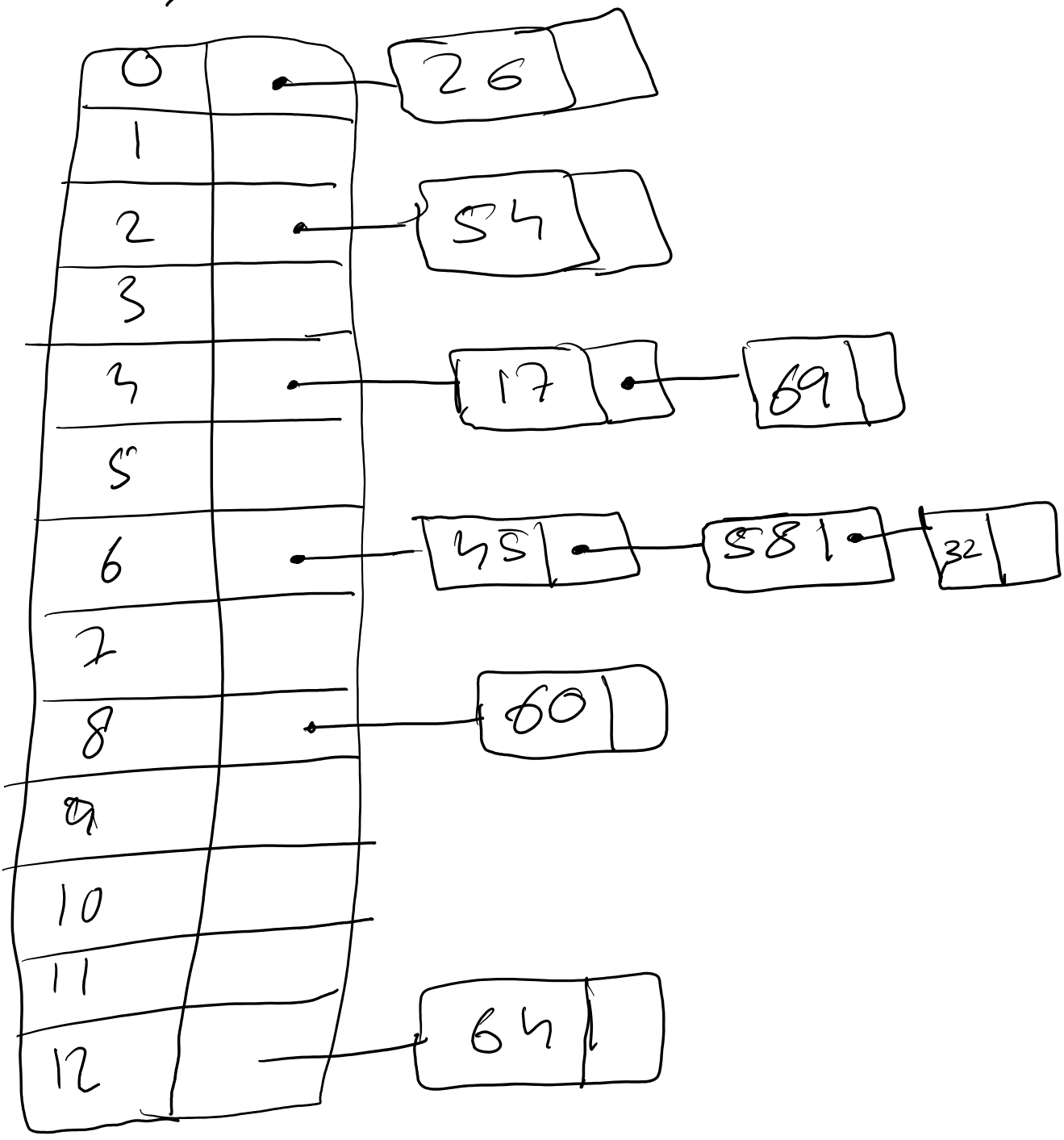
2b)

0	26
1	
2	54
3	
4	17
5	69
6	75
7	58
8	60
9	
10	32
11	
12	64

Successful: 1.70

Unsuccessful: 3.25

Q2c)



Successful : ≈ 1.35

Unsuccesful : 9/13 ≈ 0.69