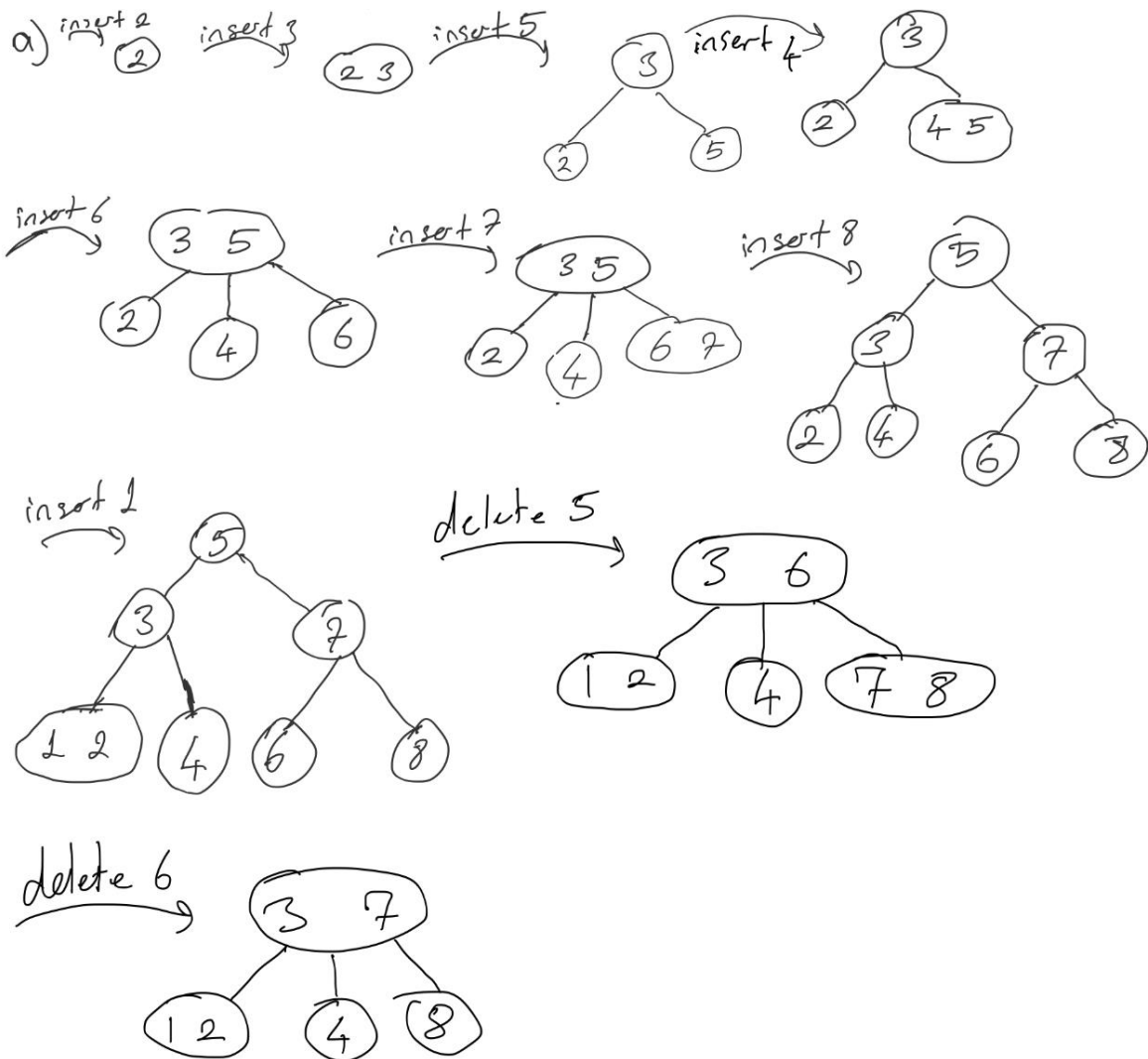
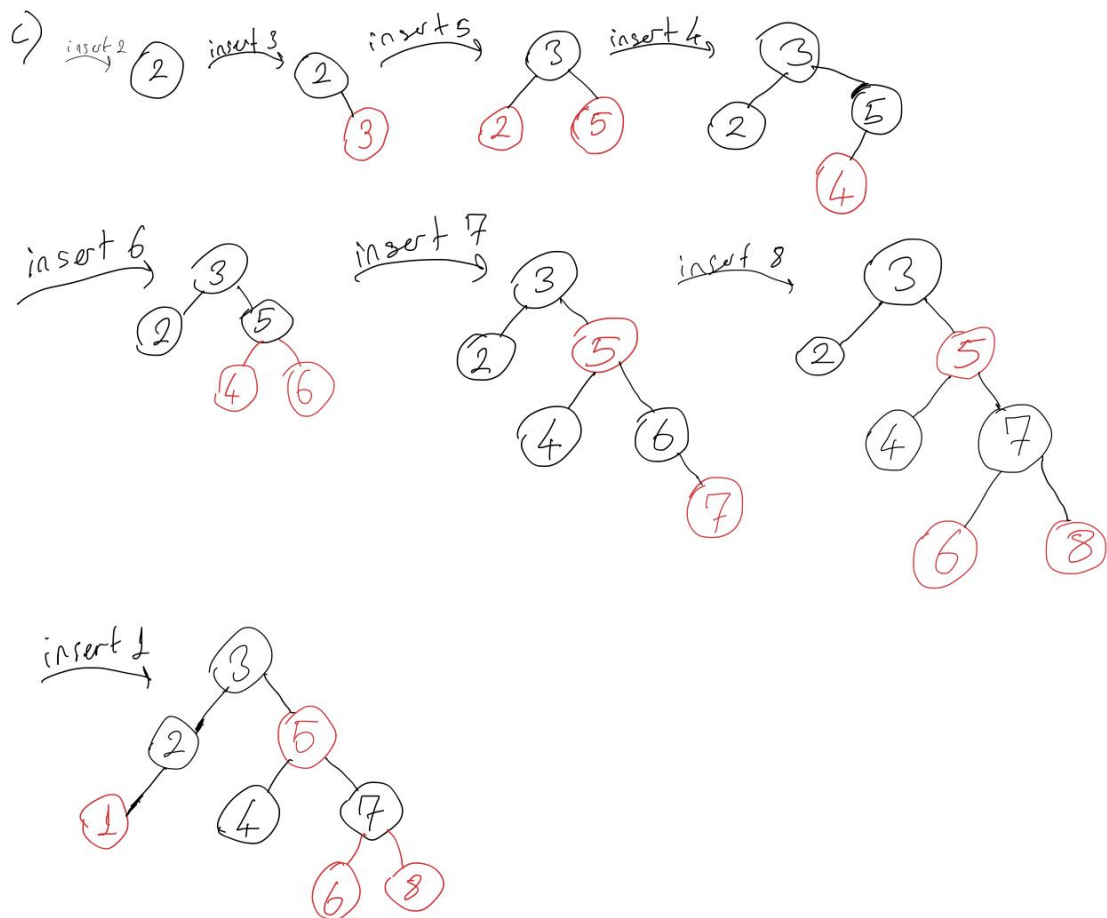


Name: Zeynep Doğa Dellal

ID: 22002572

Question-1





Question-2

a) Table size 17

Step 1
 $20 \bmod 17 = 3$

	0
	1
20	2
	3
	4
	5
	6
	7
	8
	9
	10
	11
	12
	13
	14
	15
	16

Step 4
 $19 \bmod 17 = 2$
 $2+1, 2+2, 2+3 = 5$

	0
36	1
20	2
2	3
19	4
	5
	6
	7
	8
	9
	10
	11
	12
	13
	14
	15
	16

Step 7
 $37 \bmod 17 = 3$
 $3+2, 3+2, 3+3, 3+4 \Rightarrow 7$

34	0
36	1
20	2
2	3
19	4
53	5
37	6
	7
	8
	9
	10
	11
	12
	13
	14
	15
	16

Step 2
 $36 \bmod 17 = 3$

	0
36	1
20	2
	3
	4
	5
	6
	7
	8
	9
	10
	11
	12
	13
	14
	15
	16

Step 5
 $53 \bmod 17 = 2$
 $2+1, 2+2, 2+3, 2+4 \Rightarrow 6$

	0
36	1
20	2
2	3
19	4
53	5
	6
	7
	8
	9
	10
	11
	12
	13
	14
	15
	16

Step 3
 $2 \bmod 17 = 2$

	0
36	1
20	2
2	3
	4
	5
	6
	7
	8
	9
	10
	11
	12
	13
	14
	15
	16

Step 6
 $34 \bmod 17 = 0$

34	0
36	1
20	2
2	3
19	4
53	5
	6
	7
	8
	9
	10
	11
	12
	13
	14
	15
	16

b) Table size : 17

$$\textcircled{1} 20 \bmod 17 = 3 //$$

$$\textcircled{2} 36 \bmod 17 = 2 //$$

$$\textcircled{3} 2 \bmod 17 = 2$$

$$2 + 1^2, 2 + 2^2$$

$$\Rightarrow 6 \bmod 17 = 6 //$$

$$\textcircled{4} 19 \bmod 17 = 2$$

$$2 + 1^2, 2 + 2^2, 2 + 3^2 \Rightarrow 11$$

$$11 \bmod 17 = 11 //$$

$$\textcircled{5} 53 \bmod 17 = 2$$

$$2 + 1^2, 2 + 2^2, 2 + 3^2, 2 + 4^2 = 18$$

$$18 \bmod 17 = 1 //$$

$$\textcircled{6} 34 \bmod 17 = 0 //$$

$$\textcircled{7} 37 \bmod 17 = 3$$

$$3 + 1^2 = 4 \bmod 17 = 4 //$$

34	0	6 th step
53	1	5 th step
36	2	2 nd step
20	3	1 st step
37	4	7 th step
	5	
2	6	3 rd step
	7	
	8	
	9	
	10	
19	11	4 th step
	12	
	13	
	14	
	15	
	16	

c) Table size 17

Step 1

	0
	1
	2
	3 → 20
	4
	5
	6
	7
	8
	9
	10
	11
	12
	13
	14
	15
	16

Step 2

	0
	1
	2 → 36
	3 → 20
	4
	5
	6
	7
	8
	9
	10
	11
	12
	13
	14
	15
	16

Step 3

	0
	1
	2 → 36 → 2
	3 → 20
	4
	5
	6
	7
	8
	9
	10
	11
	12
	13
	14
	15
	16

Step 4

	0
	1
	2 → 36 → 2 → 19
	3 → 20
	4
	5
	6
	7
	8
	9
	10
	11
	12
	13
	14
	15
	16

Step 5

	0
	1
	2 → 36 → 2 → 19 → 53
	3 → 20
	4
	5
	6
	7
	8
	9
	10
	11
	12
	13
	14
	15
	16

Step 6

	0 → 34
	1
	2 → 36 → 2 → 19 → 53
	3 → 20
	4
	5
	6
	7
	8
	9
	10
	11
	12
	13
	14
	15
	16

Step 7

	0 → 34
	1
	2 → 36 → 2 → 19 → 53
	3 → 20 → 37
	4
	5
	6
	7
	8
	9
	10
	11
	12
	13
	14
	15
	16