

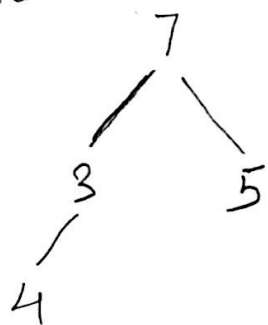
WK 10 Quiz

Que 01 Heap sort

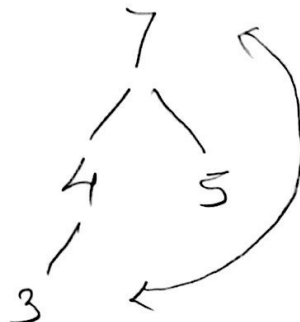
Initial elements

3 7 5 4

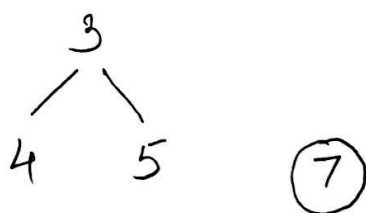
(step 1)



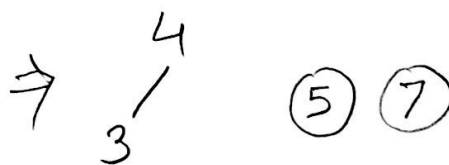
⇒



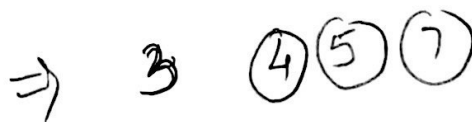
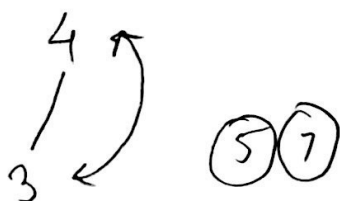
(step 2)



max heap



max heap



Que 02

Table size 5

$(1, 20), (2, 70), (42, 80), (4, 25), (12, 44), (14, 32), (17, 11), (13, 78), (37, 98)$

	key value	Hash	Hash table Index
1	$(1, 20) 20$	$1 \% 5$	1
2	$(2, 70) 70$	$2 \% 5$	2
3	42 80	$42 \% 5$	2
4	4 25	$4 \% 5$	4
5	12 44	$12 \% 5$	2
6	14 32	$14 \% 5$	4
7	17 11	$17 \% 5$	0
8	13 78	$13 \% 5$	3
9	37 98	$37 \% 5$	0

collision occurs as 2 is there ~~in~~ index 2