

Zain A. Assignment 5 (REDO)

4) [-----] 13 slots

hash 25 = 0	Index	0	25
hash 14 = 4	1	0	
hash 9 = 7	2	21	
hash 7 = 12	3	33	
hash 5 = 4 COLLISION @ index 4.	4	14	
Probe sequence: 4 → 9, therefore index 6	5	25	
hash 3 = 10	6	42	
hash 0 = 0 COLLISION @ index 0	7	9	
reverse(0) = 1 % 13 = 1, index 1	8	6	
Probe: 0 → 1	9	9	
hash 21 = 2	10	3	
hash 6 = 8	11	24	
hash 33 = 3	12	7	

hash 25 = 0 COLLISION @ index 0
 COLLISION @ index 1
 COLLISION @ index 2
 COLLISION @ index 3
 COLLISION @ index 4
 index 5 is open, therefore index 5.
 hash 42 = 10 COLLISION @ index 10
 COLLISION @ index 6
 index 6 is open
 hash 24 = 7 COLLISION @ index 7, 10, 0, 3, 6, 9, 12, 2, 5, 8, 11
 Ouch! index 11 fits, time to resize

resize slots to 27

Next Page

hash 107 = 18

0	29
1	0
2	21
3	33
4	14
5	25
6	42
7	9
8	6
9	9
10	3
11	24
12	7
13	
14	
15	
16	
17	
18	107
19	
20	
21	
22	
23	
24	
25	
26	
27	