## CMSC 123 Data Structures Pen-and-Paper Exercise on Hashing

Given the following input: hash table size m = 23 and keys = {34, 56, 2, 86, 59, 11, 20, 17, 39, 1, 15}, insert them into the hash table using:

 $h_2(k) = 5 - (k \% 5)$ 

Linear Probir	g Quadration	c Probing	Double Hashing
0	0		0
1	1	ملم	1 1
2 2	2	2	2 2
3	3		3
4	4		4
5	5		5
6	6		6
7	7		7 15
8	8		8
9	9		9
10 56	10	56	10 56
11 34	11	<b>3</b> 4	11 34
12	12	<b>1</b> 1	12
13 59	13	59	13 59
14	14		14
15 15	15	15	15 11
16 26	16	29	16 39
17 86	17	<b>%</b> 6	17 86
18 17	18	17	18
19	19		19
20 20	20	20	20 20
21	21		21
22	22		22