## CS 5012: Open and Closed Hashing In-Class Activity

Q1) Insert the following keys into the hash table of size 13 below, using each conflict resolution method: (75 points)

$$h(k) = k \mod 13$$

Hash table: Linear Probing

0	1	2	3	4	5	6	7	8	9	10	11	12
117	105	41	94		18	44	59	32	22	31	73	85

## Hash table: Quadratic Probing

0	1	2	3	4	5	6	7	8	9	10	11	12
117	31	41	94	105	18	44	59	73	22	32	85	

## Hash table: Chaining

0	1	2	3	4	5	6	7	8	9	10	11	12
117	105	41	94			32	_	73	22			
18, 44, 31 59, 85												

Q2) Insert the following keys into the hash table of size 13 below, using linear probing conflict resolution method:(25 points)

## $h(k) = k \mod 13$

0	1	2	3	4	5	6	7	8	9	10	11	12
		berry		plum		peach	grape	melon	kiwi	apple	banana	mango