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

18   41   22   44   59   32   31   73   85   94   105   117

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

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

"apple", "banana", "grape", "mango", "peach", "berry", "plum", "melon", "kiwi", "pear"

0	1	2	3	4	5	6	7	8	9	10	11	12