CSCI 204 Hashing Activity 1

Student name(s)_____

- Assume an initially empty has table with 11 spots. The primary hashing function is the modulo function, i.e., h(k) = k % 11. Show the contents of the hash table after the following keys are inserted in the given order, assuming the indicated type of probe is used: 67, 815, 45, 39, 2, 901, 34.
 - a. Linear probe with c = 1
 - b. Linear probe with c = 3
 - c. Quadratic probe
 - d. Double hashing with hp(k) = (k * 3) % 7
- 2. In the above insertions, how many probes are needed to insert the entire sequence of numbers for each different probe functions (a-d)?