**Quiz3**

**Full name:**

**CSU ID:**

**You can write on the back.**

**Question 1 (4 points)** quadratic probing. The hash table size is 11 (from 0 to 10). Use the quadratic hash function:

Please insert 20, 30, 2, 13, 25, 24, 10, 9. Show each step of inserting each number. Also show the final hash table.

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0 1 2 3 4 5 6 7 8 9 10

**Question 2 (4 points)** Double hashing. The hash table size is 13 (from 0 to 12).

Rev(k) reverses the decimal digits of k, for example, Rev(12) = 21; Rev(2) = 2. The final hash function: .

Please insert 2, 8, 31, 20, 19, 18, 53, 27. Show each step of inserting each number. Also show the final hash table.

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