

## 2) (5 pts) ALG (Hash Tables)

Insert the following numbers (in the order that they are shown from left to right) into a hash table with an array of size 10, using the hash function,  $H(x) = x \bmod 10$ .

234    344    483    564    814

Show the result of the insertions, assuming any hash collisions are resolved through quadratic probing.

Index	Value
0	814
1	
2	
3	483
4	234
5	344
6	
7	
8	564
9	

**Grading: Give 1 pt for each value listed in the correct spot. If more than one value is in a single spot, give 0 pts for all values in that particular slot automatically.**