

Section 5: Hashing & Sorting

0. Hash... Browns?

For the following scenarios, insert the following elements in this order: 7, 9, 48, 8, 37, 57. For each table, TableSize = 10, and you should use the primary hash function $h(k) = k$. If an item cannot be inserted into the table, please indicate this and continue inserting the remaining values.

a) Linear Probing -
Insertion

0	
1	
2	
3	
4	
5	
6	
7	
8	
9	

Linear Probing -
Delete 37, 7, 57

0	
1	
2	
3	
4	
5	
6	
7	
8	
9	

b) Quadratic Probing

0	
1	
2	
3	
4	
5	
6	
7	
8	
9	

c) Separate chaining hash table - Use a linked list for each bucket. Order elements within buckets in any way you wish.

0	
1	
2	
3	
4	
5	
6	
7	
8	
9	

