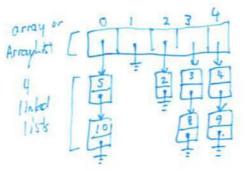
CS-2852 - Dr. Durant - Quiz 7 Spring 2014, Week 9

 (5 points) The Integers 4, 3, 9, 8, 5, 2, 10 are added to a hash table with 5 buckets (using chaining) where the assigned bucket is equal to the Math.abs(i % numberOfBuckets). Draw the resulting data structure.



2. (2 points) What is the load factor of this hash table?

3. (1 point) Under what condition will a hash table (using chaining) have its best case (O(1)) insert/remove/find performance?

there are few collision to most budists
contain fewa then 2 items
2 bechnically valid or any constant = 2

4. (1 point) What is the worst case insert/remove/find performance in big-O notation when the condition is not met?

0(1)

5. (1 point) Why?

Many a all of the item are in long linked lists which have

longth microasing proportional to N== #2 muts