

## Activity 1: Problem Solving

1.

"lad" → 14 → location =  $14\%12 = 2$   
 "but" → 40 → location =  $40\%12 = 4$   
 "is" → 26 → location =  $26\%12 = 2$  (collision)  
 "chin" → 30 → location =  $30\%12 = 6$   
 "be" → 5 → location =  $5\%12 = 5$   
 "fun" → 38 → location =  $38\%12 = 2$  (collision)  
 "blab" → 13 → location =  $13\%12 = 1$   
 "zoo" → 53 → location =  $53\%12 = 5$  (collision)

Location	Key
0	
1	"blab"
2	"lad" → "is" → "fun"
3	
4	"but"
5	"be" → "zoo"
6	"chin"
7	
8	
9	
10	
11	

2.

"blab" → "lad" → "is" → "fun" → "but" → "be" → "zoo" → "chin"

3.

```

def hash_function(aString):
    result = 0
    for index in range(len(aString)):
        result += ord(aString[index]) * pow(31, index)
    return result
  
```



```
        self.back.nextInsertion = None
    else:
        target_node.prevInsertion.nextInsertion = target_node.nextInsertion
        target_node.nextInsertion.prevInsertion = target_node.prevInsertion
    if before_target_node is None:
        self.table[index] = self.table[index].chain
    else:
        before_target_node.chain = target_node.chain
self.size -= 1
```