

# CSE 12 – Basic Data Structures and Object-Oriented Design

## Lecture 17

Greg Miranda, Spring 2021

# Announcements

- Quiz 17 due Monday @ 12pm
- PA6 due Wednesday @ 11:59pm (open)
- Survey 6 due tonight @ 11:59pm
- Practice Map Problems – see schedule

# Topics

- Linear Probing
- Questions on Lecture 17?

# Hash Table – draw the pictures (Linear Probing)

```
int getIndex(String k) {  
    return k.length();  
}
```

# of buckets – 4

(i.e. the size of the array)

expandCapacity() called in set()

LoadFactor – .67

```
set("Smith", 1);  
set("Johnson", 2);  
set("Williams", 3);  
set("Brown", 4);  
set("Jones", 5);  
set("Garcia", 6);  
set("Miller", 7);  
set("Davis", 8);  
set("Rodriguez", 9);  
set("Martinez", 10);
```