CSE 12 – Basic Data Structures and Object-Oriented Design
Lecture 16

Greg Miranda, Fall 2020

Announcements

- Quiz 16 due Friday @ 9am
- Survey 6 due Friday @ 11:59pm
- PA5 due Thursday @ 11:59pm
  - Not Wednesday – holiday
- PA6 released Thursday
- Game/Movie Night Social on Friday @ 7pm
- Practice Map Problems – see schedule
- Degree Planning EC due Friday @ 11:59pm

Topics

- Map and HashTable

- Questions on Lecture 16?

Hash Table – draw the pictures (Separate Chaining)

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

\# of buckets – 4
  (i.e. the size of the array)

expandCapacity() called in set()

LoadFactor – 0.75

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);

Questions on Lecture 16?