

CSE 12 – Basic Data Structures and Object-Oriented Design

Lecture 16

Greg Miranda & Paul Cao, Winter 2021

This lecture is being recorded

Announcements



- Quiz 16 due Wednesday @ 8am
- Survey 6 due tonight @ 11:59pm
- PA6 due Wednesday @ 11:59pm
- Practice Map Problems – see schedule



Monday → No class

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?