# CSE 12 — Basic Data Structures and Object-Oriented Design Lecture 17

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### Announcements

- Quiz 17 due Monday @ 9am
- Survey 6 due tonight @ 11:59pm
- PA6 due Wednesday @ 11:59pm
- Game/Movie Night Social tonight @ 7pm -> p1922
- Degree Planning EC due tonight @11:59pm
- Exam 2
  - Released Tuesday 11/24 @ 6pm
  - Due Wednesday 11/25 @ 11:59pm
  - More details coming next week on Piazza

## Topics

- Linear Probing
- Questions on Lecture 17?

# Hash Table – draw the pictures (Linear Probing)

```
set("Smith", 1);
int getIndex(String k) {
                                            set("Johnson", 2);
  return k.length();
                                            set("Williams", 3);
                                            set("Brown", 4);
                                            set("Jones", 5);
                                            set("Garcia", 6);
# of buckets – 4
                                            set("Miller", 7);
   (i.e. the size of the array)
                                            set("Davis", 8);
expandCapacity() called in set()
                                            set("Rodriguez", 9);
LoadFactor – .67
                                            set("Martinez", 10);
```

### Questions on Lecture 17?