

CS210

Discussion

Week 9

Attendance

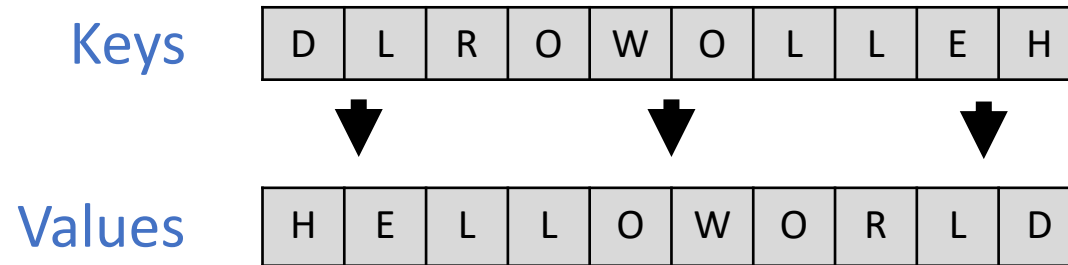


Today

- ArrayST
- Exercise hints
- Finish through exercise 1
 - Show us passing Gradescope tests to leave early

ArrayST

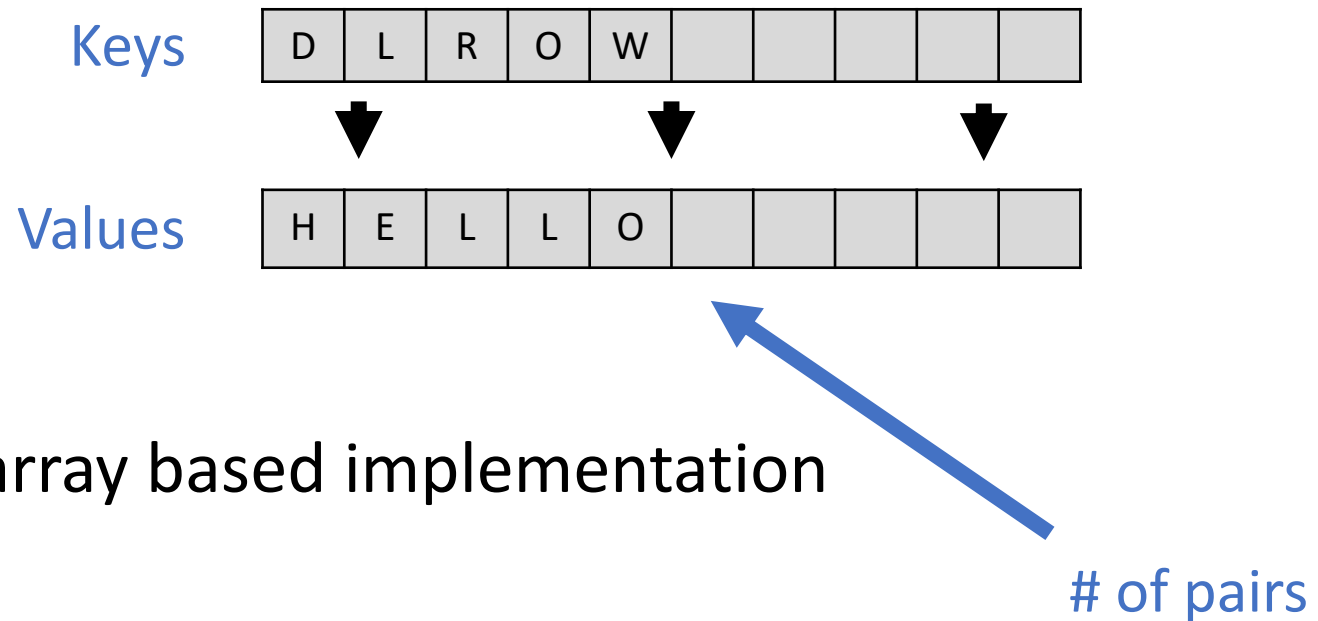
- Inefficient symbol table implementation
- Lot's of searching



- Generic

ArrayST

- Inefficient symbol table implementation
- Lot's of searching



- Generic
- Resizing array based implementation

Questions?

Exercise Hints

- Creating a generic array
- It's an unordered array, so new entries can go at the end
- Shift key/value pairs to the left to delete a key
- Linear search to find entries (simple loop)
- Comparing Keys
- Keep track of n
- Resize arrays as necessary

```
Key[] someKeys = (Key[]) new Object[2];
```

```
someKey.equals(someOtherKey);
```

```
if (keys.length == n) {  
    resize( capacity: 2 * keys.length);  
}
```

Spell Checker

- Splitting lines
 - Using “,”
 - Using “\\b”

```
line.trim().split( regex: ",");
```

```
String[] words = line.trim().split( regex: "\\b");
```

- Reading StdIn
 - Lines
 - While loop

```
while (!StdIn.isEmpty()) {  
    String line = StdIn.readLine();  
    ~~~~~  
}
```