

Homework 11

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```
@Override
public int hashCode() {
    int length = this.rep.length();
    int total = 0;
    for (int i = 0; i < length; i++) {
        if (!(this.rep.charAt(i) == '-')) {
            total = total + Character.digit(this.rep.charAt(i), 10);
        }
    }
    return total;
}
```

1)

2) I) The problem is that OHIO returns a different value when using Character.digit than 6446. Instead of returning the numbers on the keypad, it returns numbers based on the radix 10.

II) The function would somehow have to have predetermined hard-coded values to match with, and when it finds the exact match, then it will know that it is the special code "OHIO" rather than just 6446

III) Since Character.digit isn't affected by uppercase or lowercase, it doesn't have to be changed.