

## Lab 2 Feedback

- Getting a little tougher in grading
  - Paying more attention to style (e.g., variable names), efficiency, readability, good output
  - More strict on adhering to problem specification
  - Constants
    - Clear that not everyone was understanding why we use constants
  - Demonstrate program more than once if gets input from user or outcome changes when run again

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## Lab 2 Feedback: Common Issues

- Over **string**
  - If variable assigned value of raw\_input, it is a string already
  - "\\\" is a string
- Format specifiers
  - Use width when need columns
  - Otherwise, just precision is usually enough
    - "%.2f" -- exactly the width of your number, with two decimals of precision

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## Testing Programs with **if** Statements

```
clockspeed = input("Enter the clocked speed: ")
speedlimit = input("Enter the speed limit: ")

if clockspeed <= speedlimit:
    print "Continue safe driving practices"
else:
    diff = clockspeed - speedlimit
    fine = 50 + 5 * diff
    if clockspeed > 90:
        fine += 200
    print "Slow down! You've been fined $" + str(fine) + "."
```

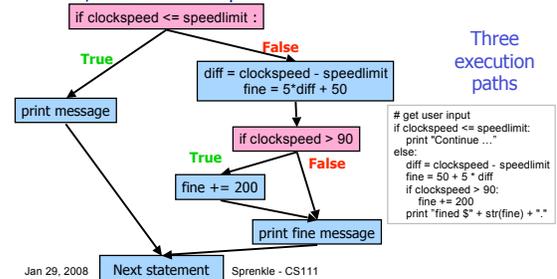
- What are good test cases for this program?

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## Testing with **if** Statements

- Make sure have test cases that execute each branch in control flow diagram
  - i.e., Each execution path is "covered"

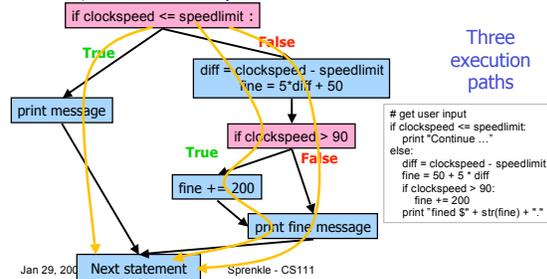


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## Testing with **if** Statements

- Make sure have test cases that execute each branch in control flow diagram
  - i.e., Each execution path is "covered"



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## Lab 3 Overview

- Practice Python programming
  - Advanced For loops
  - Using random module
  - If statements
- More "tougher" word problems
  - Work out as much as possible, then move on and come back to problem later with a fresh mind

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