

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

Jan 29, 2008

Sprenkle - CS111

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

Jan 29, 2008

Sprenkle - CS111

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) + "."
```

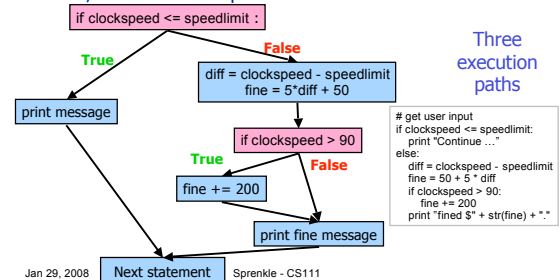
- What are good test cases for this program?

Jan 29, 2008

Sprenkle - CS111

Testing with `if` Statements

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

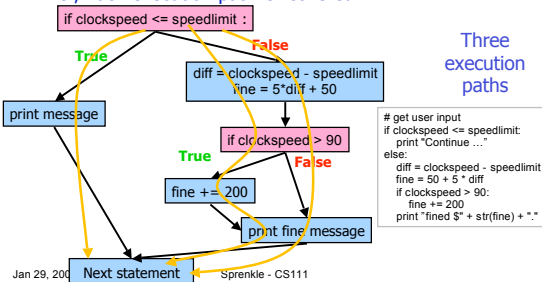


Jan 29, 2008

Sprenkle - CS111

Testing with `if` Statements

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



Jan 29, 2008

Sprenkle - CS111

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

Jan 29, 2008

Sprenkle - CS111