

CS 241

Section Week #2

September 1, 2011

Topics This Section

- MP1 overview (due Tuesday night)
- What's a lab report?
- Tools to help with memory
- Practice program

MP1

- Two Separate Parts:
 - [Part 1]:
 - Call ten separate functions with the correct parameters to print out a line.
 - [Part 2]:
 - Build a simple dictionary to store key/value pairs of strings.

MP1

- Dictionary API
 - dictionary_init()
 - dictionary_add()
 - dictionary_parse()
 - dictionary_get()
 - dictionary_remove()
 - dictionary_destroy()

MP1

- All dictionary functions take in the **SAME** dictionary_t object.
 - dictionary_XYZ(**dictionary_t *d**, ...) is equivalent to d->XYZ(...) from OOP

MP1

dictionary_XYZ(**dictionary_t *d**, ...)

Since a pointer is passed in by value, you can't change what **d** points to.

This won't work:

d = malloc(sizeof(dictionary_t));

You can only do this:

d->field = ...;

Lab Report

- Less is More
- Focus on design decisions not implementation specifics
- For example: Dictionary based on linked list for quick implementation

Lab Report

- Needs to be in PDF form
- `mv textfile.txt textfile.pdf...` **BAD!**
- OpenOffice – Export as PDF... **GOOD!**
- Windows – Print, Choose pdf creator **GOOD**
- Latex – You are 1337 `|-|4X0|2`
- How do you add a new file to svn repo?

Fixing Memory Issues

```
$> valgrind ./program args
```

Try it on `ds/ds2/memory.c`