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`
Since a pointer is passed in by value, you can’t change what \( d \) points to.

This won’t work:

```c
    d = malloc(sizeof(dictionary_t));
```

You can only do this:

```c
    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

$>\text{valgrind }./\text{program args}$

Try it on ds/ds2/memory.c