Setup for Buffer Overflow Lab

Today: tools that you'll find useful

Friday: complete the lab

Some Useful Command-Line Tools

```
file
xxd
strings
nm
otool -tV
objdump -d
```

Compile and Decompile Resources

You don't need these for the buffer overflow lab, but they're fun to try out

https://godbolt.org/

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Compilation Flags

Compile with --target=macos-x86_64 for 64-bit x86

Compile with -g to enable debugging information:

- then LLDB can show source while stepping
- also, LLDB expressions can refer to local variables

LLDB

Start a debugging session:

Some useful LLDB commands:

- b *expr* set a breakpoint
- c continue from a breakpoint
- s step one C expression
- si step one machine code instruction
- p expr print the value of an expression
- p/x expr print in hexadecimal

Use \$rsp to get the value in RSP, such as in (11db) p/x \$rsp and similar for other registers