Chapter 1 Notes

1. To find out if your computer has a connection to another computer.

ping ip address or domain name

Example

ping 142.250.188.228

ping www.google.com

2. To find your internal IP address, open a Terminal (cmd) window and type in the following command.

For Windows

ipconfig

For Linux/macOS

ifconfig

3. To find your external IP address

Browse to api.ipify.org

or just search for "what is my ip address"

12.235.2.188 is LSU's external IP address

Virtual Private Network (VPN). If you're using VPN you will get a different external IP address

4. Command to compile your C program in cmd or Terminal

For Windows cmd line command

gcc filename.c -o filename.exe -lws2_32

- gcc is the C compiler command
- filename.c is the input C source file
- -o flag is to specify the output executable filename.exe. The default is a.out if not specified.
- -I flag is to link the library ws2_32

For Linux/macOS Terminal line command

gcc filename.c -o filename.exe

- gcc is the C compiler command
- filename.c is the input C source file
- -o flag is to specify the output executable filename.exe. The default is a.out if not specified.

For Code::Blocks

Need to add the link library ws2_32



Project build option	ns — 🗆	×
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	Policy: Append target options to project options	~
	Link libraries: Other linker options:	
	ws2_32	
	Add Edit Delete Clear Copy selected to Linker executable: Auto detect	
OK Cancel		

For CLion

Need to add

link_libraries(ws2_32 wsock32)

in the CMakeLists.txt file for the project

5. In the win_list.c file, need to add the following line in the header

#include <winerror.h>

otherwise, the ERROR_BUFFER_OVEFLOW and ERROR_SUCCESS constants are not defined.