

- 0) Quit
- 1) Print all scores
- 2) Print all scores to file
- 3) Print average Pacific scores
- 4) Print average Opponent scores
- 5) Print all scores against

>> 1

Pacific 2 Linfield 1 - Win!  
Pacific 3 GeorgeFox 2 - Win!  
Pacific 2 Oregon 3 - Loss!  
Pacific 3 Willamette 2 - Win!  
Pacific 4 PSU 1 - Win!  
Pacific 3 Reed 3 - Tie!  
Pacific 4 OSU 1 - Win!  
Pacific 3 Linfield 0 - Win!  
Pacific 4 GeorgeFox 5 - Loss!  
Pacific 6 Oregon 1 - Win!

- 0) Quit
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- 3) Print average Pacific scores
- 4) Print average Opponent scores
- 5) Print all scores against

>> 2

Filename: test.out

- 0) Quit
- 1) Print all scores
- 2) Print all scores to file
- 3) Print average Pacific scores
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- 5) Print all scores against

>> 3

Pacific average: 3.4

- 0) Quit
- 1) Print all scores
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- 3) Print average Pacific scores
- 4) Print average Opponent scores
- 5) Print all scores against

>> 4

Opponent average: 1.9

- 0) Quit
- 1) Print all scores
- 2) Print all scores to file
- 3) Print average Pacific scores
- 4) Print average Opponent scores
- 5) Print all scores against

>> 5

Opponent: Linfield  
Pacific 2 Linfield 1 - Win!  
Pacific 3 Linfield 0 - Win!

- 0) Quit
- 1) Print all scores
- 2) Print all scores to file
- 3) Print average Pacific scores
- 4) Print average Opponent scores
- 5) Print all scores against

>> 0

Press any key to continue . . .

## CS 150 Function Design In-Class Lab

For this assignment you only need to:

- Define the variables you will need to use in main()
- Define all the **function prototypes** you will need
- Provide a short description of each function.

**You do not need to write any code.**

You will work with a partner on this exercise in class.

The Pacific University athletic department wants a very simple statistical analysis of the baseball season. They have provided you with a text file, as shown below, that contains game scores and opponent names.

You have been asked to provide the functionality shown on the other page of this handout.

```
2 1 Linfield
3 2 GeorgeFox
2 3 Oregon
3 2 Willamette
4 1 PSU
3 3 Reed
4 1 OSU
3 0 Linfield
4 5 GeorgeFox
6 1 Oregon
-1 -1 THE_END
```

Notes:

- There is a maximum of 20 games in a season.
- "Print all scores to files" prints, to a file, exactly what "Print all scores" prints to the screen.
- Averages are always printed to 1 digit past the decimal point.
- Opponent names in the text file never contain spaces

A working version of this program is available in the CS 150 Public folder. Copy the entire folder **FunctionDesign** to your Desktop. Open the folder and double click on PacificScores to test the program.