

Advanced Programming

COEN 11, Fall 2014

Lab 1

How to start

- Login to the Mac
- Start a terminal
- Use vi
- Create the program
- Compile and execute
- Demo to the TA
- Upload your code to camino

Problem

Write a program to score the paper-rock-scissor game between two players. The first player is the user and the second player is the computer.

Each of the two users can choose paper (P), rock (R) or scissor (S).

- You let the user decide first:
ask for an input from the keyboard (user enters the appropriate upper or lower case letter).
- then your program makes a (random) choice:
by generating a random number between 1 and 3, where 1 corresponds to paper, 2 to rock and 3 to scissor.

The program then announces the winner as well as the basis for determining the winner: Paper covers rock, Rock breaks scissors, Scissors cut paper or nobody wins (tie).

Your program should include a loop that lets the players play 10 times. Count and output the number of wins of each player.

Hint: To generate the random numbers use

- `player2 = rand () % 3 + 1;`
- before the loop, call srand once
`srand ((int) time (NULL));`