

CALIFORNIA STATE UNIVERSITY, LOS ANGELES
PROGFEST 2013

Problem 4

Text Based Connect Four Game

Connect Four is a popular game played by people of all ages. The game is played usually on an 6 by 7 board. Two players play by alternately dropping a token down one of the columns. This token will fall to the bottom of the lowest unoccupied slot in that particular column. This continues back and forth until a player is able to achieve four of their tokens in a row, either vertical, horizontal, or even diagonal. The player to achieve this wins the game.

You are tasked with creating a text based version of Connect Four. You need to output a the state of the board each turn:

//SAMPLE OUTPUT BEGINNING(this line not part of output):

1234567

xxxxxxx

xxxxxxx

xxxxxxx

xxxxxxx

xxxxxxx

xxxxxxx

First Player Please Enter Move:

Once this is displayed, the game will prompt the user to choose a column to drop the token. For example, if the user decides to drop a token in the 5th column, the game will then output the updated board like so:

//SAMPLE OUTPUT NEXT ITERATION(this line not part of output):

1234567

xxxxxxx

xxxxxxx

xxxxxxx

xxxxxxx

xxxxxxx

xxxxFxx

Second Player Please Enter Move:

The “F” will signify the move that the first player has made. After this, the game will switch over to the second player, where they can now place their own token, ex: token is placed in the 5th row again:

//SAMPLE OUTPUT NEXT ITERATION(this line not part of output):

1234567

xxxxxxx

xxxxxxx

xxxxxxx

xxxxxxx

xxxxSxx

xxxxFxx

First Player Please Enter Move:

The “S” will signify the move that the second player has made. This will continue back and forth until a player has gotten four of his/her tokens in a row, either vertical, horizontal, or diagonal. When this happens, the program will output who the winner is and then terminate. (ex: if player two wins, the program will output “Player 2 wins!”)