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import numpy as np
import random
from time import sleep
def create_board():
 return(np.array([[0, 0, 0],
          [0, 0, 0],
          [0, 0, 0]]))
def possibilities(board):
 1 = []
 for i in range(len(board)):
   for j in range(len(board)):
      if board[i][j] == 0:
       l.append((i, j))
 return(1)
def random_place(board, player):
 selection = possibilities(board)
 current_loc = random.choice(selection)
 board[current_loc] = player
 return(board)
def row_win(board, player):
 for x in range(len(board)):
   win = True
    for y in range(len(board)):
     if board[x, y] != player:
       win = False
        continue
    if win == True:
     return(win)
 return(win)
def col win(board, player):
 for x in range(len(board)):
   win = True
    for y in range(len(board)):
      if board[y][x] != player:
       win = False
        continue
   if win == True:
      return(win)
 return(win)
def diag_win(board, player):
 win = True
 y = 0
 for x in range(len(board)):
   if board[x, x] != player:
     win = False
 if win:
   return win
 win = True
 if win:
    for x in range(len(board)):
     y = len(board) - 1 - x
      if board[x, y] != player:
       win = False
 return win
def evaluate(board):
 winner = 0
 for player in [1, 2]:
    if (row_win(board, player) or
        col_win(board, player) or
        diag_win(board, player)):
      winner = player
 if np.all(board != 0) and winner == 0:
   winner = -1
 return winner
def play_game():
 board, winner, counter = create_board(), 0, 1
 print(board)
 sleep(2)
 while winner == 0:
```

```
for player in [1, 2]:
     board = random_place(board, player)
      print("Board after " + str(counter) + " move")
      sleep(2)
      counter += 1
      winner = evaluate(board)
      if winner != 0:
  return(winner)
print("Winner is: " + str(play_game()))
→ [[0 0 0]
      [0 0 0]
      [0 0 0]]
     Board after 1 move
     [[0 0 0]]
      [1 0 0]
      [0 0 0]]
     Board after 2 move
     [[2 0 0]
      [1 0 0]
      [0 0 0]]
     Board after 3 move
     [[2 1 0]
      [1 0 0]
      [0 0 0]]
     Board after 4 move
     [[2 1 0]
      [1 0 0]
      [0 2 0]]
     Board after 5 move
     [[2 1 0]
      [1 1 0]
      [0 2 0]]
     Board after 6 move
     [[2 1 0]
      [1 1 0]
      [2 2 0]]
     Board after 7 move
     [[2 1 0]
      [1 1 1]
     [2 2 0]]
Winner is: 1
```