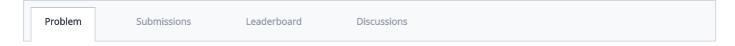


Tic tac toe



Tic-tac-toe is a pencil-and-paper game for two players, X (ascii value 88) and O (ascii value 79), who take turns marking the spaces in a 3×3 grid. The player who succeeds in placing three respective marks in a horizontal, vertical, or diagonal row wins the game. Empty space is represented by _ (ascii value 95), and the X player goes first.

Here is an example game won by the first player, X:



The function nextMove takes in a char player, and the 3x3 board as an array. Complete the function to print 2 space separated integers r and c which denote the row and column that will be marked in your next move. The top left position is denoted by (0,0).

How does it work?

Your code is run alternately with the opponent bot for every move.

Example input:

```
x
---
---
_xo
```

Example output:

1 0

Explanation:

The board results in the following state after the above move

```
x_
_x0
```

Submissions: 4640 Max Score: 10 Difficulty: Advanced Rate This Challenge:

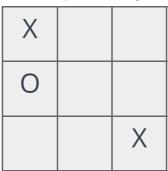
```
8 🔻
                if all(b[r][c] == p for r in range(3)):
9
                    return True
            if all(b[i][i] == p for i in range(3)):
10 🔻
11
                return True
            if all(b[i][2 - i] == p for i in range(3)):
12 🔻
13
                return True
14
            return False
15
16
        opponent = '0' if player == 'X' else 'X'
17
18
        # Check for winning move for player
19 🔻
        for r in range(3):
20 🔻
            for c in range(3):
21
                if board[r][c] == '_':
22
                    board[r][c] = player
23
                    if checkWin(board, player):
24
                        print(r, c)
25
                        return
26
                    board[r][c] = '_'
27
28
        # Check for blocking move for opponent
29 1
        for r in range(3):
            for c in range(3):
30 4
31
                if board[r][c] == '_':
32
                    board[r][c] = opponent
33 1
                    if checkWin(board, opponent):
34
                        print(r, c)
35
                        return
                    board[r][c] = '_'
36
37
38
        \# Prefer position (1, 0) if available
39
        if board[1][0] == '_':
40
            print(1, 0)
41
            return
42
43
        # Check for center position if available
44
        if board[1][1] == '_':
45
            print(1, 1)
46
            return
47
        # Check for corner positions
48
49 1
        for r, c in [(0, 0), (0, 2), (2, 0), (2, 2)]:
50
            if board[r][c] == '_':
51
                print(r, c)
52
                return
53
54
        # Check for remaining positions
55 🔻
        for r, c in [(0, 1), (1, 0), (1, 2), (2, 1)]:
56 1
            if board[r][c] == '_':
57
                print(r, c)
58
                return
59
   player = 'X'
60
61 board = [
        ['_', '_', '_'],
62
63
        ['_', 'X', 'O']
64
65
66
    nextMove(player, board)
67
68
                                                                                                     Line: 1 Col: 1
```

<u>♣ Upload Code as File</u>

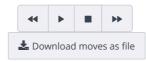
Run Code

Submit Codo

Game 1 Game 2 Vs JudgeBot chetan_ai22



JudgeBot won the game



Player: 2			
Input			Output
o X o X		1 0	
Error			

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