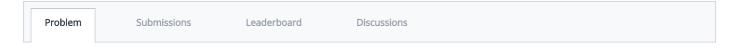


# Tic tac toe



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__
_xo
```

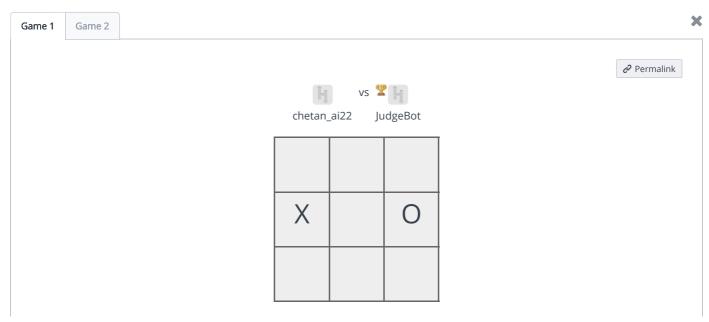
Submissions: 4640 Max Score: 10 Difficulty: Advanced Rate This Challenge: ☆☆☆☆☆

```
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
        opponent = '0' if player == 'X' else 'X'
15
16 ▼
        for r in range(3):
17 ▼
            for c in range(3):
                 if board[r][c] == '_':
18 ▼
19
                     board[r][c] = player
                     if checkWin(board, player):
20 🔻
21
                         print(r, c)
22
                         return
23
                     board[r][c] = '_'
        for r in range(3):
24 🔻
25 🔻
            for c in range(3):
26 🔻
                 if board[r][c] == '_':
27
                     board[r][c] = opponent
28 1
                     if checkWin(board, opponent):
29
                         print(r, c)
30
                         return
31
                     board[r][c] = '_'
        if board[1][0] == '_':
32 🔻
33
            print(1, 0)
34
             return
35 ▼
        if board[1][1] == '_':
36
            print(1, 1)
37
            return
        for r, c in [(0, 0), (0, 2), (2, 0), (2, 2)]:
38 ▼
39 1
            if board[r][c] == '_':
40
                 print(r, c)
41
                 return
42 ▼
        for r, c in [(0, 1), (1, 0), (1, 2), (2, 1)]:
43 🔻
            if board[r][c] == '_':
44
                 print(r, c)
45
                 return
    player = 'X'
46
47 ▼board = [
        ['_', '_', '_'],
['_', '_', '_'],
['_', 'X', '0']
48
49
50
51
52
53
    nextMove(player, board)
                                                                                                       Line: 45 Col: 19
```

# **♣** <u>Upload Code as File</u>

Run Code

Submit Code



Player: 1		
Input		Output
X		1 0
<del>x_0</del>		
Error		

Copyright © 2024 HackerRank. All Rights Reserved

Interview Prep | Blog | Scoring | Environment | FAQ | About Us | Support | Careers | Terms Of Service | Privacy Policy |