**Tic Tac Toe Final**

lst = [["---------"],

["|", " ", " ", " ", "|"],

["|", " ", " ", " ", "|"],

["|", " ", " ", " ", "|"],

["---------"]]

print("""---------

| |

| |

| |

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def result\_calc():

n\_o = 0

n\_x = 0

n\_s = 0

res = " "

for r in range(1,4):

for c in range(1,4):

if lst[r][c] == 'X':

n\_o += 1

elif lst[r][c] == 'O':

n\_x += 1

else:

n\_s += 1

if (n\_o - n\_x >= 2) or (n\_x - n\_o >= 2):

res = "Impossible"

for r in range(1,4):

if lst[r][1] == 'X' and lst[r][2] == 'X' and lst[r][3] == 'X':

res = "X wins"

else:

if lst[r][1] == 'O' and lst[r][2] == 'O' and lst[r][3] == 'O':

if res == "X wins":

res = "Impossible"

else:

res = "O wins"

for c in range(1,4):

if lst[1][c] == 'X' and lst[2][c] == 'X' and lst[3][c] == 'X':

res = "X wins"

else:

if lst[1][c] == 'O' and lst[2][c] == 'O' and lst[3][c] == 'O':

if res == "X wins":

res = "Impossible"

else:

res = "O wins"

if (lst[1][1] == 'X' and lst[2][2] == 'X' and lst[3][3] == 'X') or (lst[1][3] == 'X' and lst[2][2] == 'X' and lst[3][1] == 'X'):

res = "X wins"

else:

if (lst[1][1] == 'O' and lst[2][2] == 'O' and lst[3][3] == 'O') or (lst[1][3] == 'O' and lst[2][2] == 'O' and lst[3][1] == 'O'):

res = "O wins"

if res != "X wins" and res != "O wins" and n\_s == 0:

res = "Draw"

if res != "X wins" and res != "O wins" and n\_s != 0 and res != "Impossible":

res = "Game not finished"

return res

#print("""---------

#|""", cells[0], cells[1], cells[2], """|

#|""", cells[3], cells[4], cells[5], """|

#|""", cells[6], cells[7], cells[8], """|

#---------""")

# print(res)

result = "Game not finished"

move = 1

while result == "Game not finished":

f = -1

while f == -1:

coo = input("Enter the coordinates: ").split()

n = len(coo)

if coo[0].isalpha() or coo[1].isalpha():

print("You should enter numbers!")

else:

it = 1

for n in range(n):

coo[n] = int(coo[n])

if coo[0] < 1 or coo[0] > 3:

print("Coordinates should be from 1 to 3!")

elif coo[1] < 1 or coo[1] > 3:

print("Coordinates should be from 1 to 3!")

else:

c = coo[0]

if coo[1] == 1:

r = 3

elif coo[1] == 2:

r = 2

else:

r = 1

if lst[r][c] != ' ':

print("This cell is occupied! Choose another one!")

else:

if lst[r][c] == ' ':

if move % 2:

lst[r][c] = 'X'

f = 0

else:

lst[r][c] = 'O'

f = 0

print(lst[0][0], "\n", lst[1][0], lst[1][1], lst[1][2], lst[1][3], lst[1][4],

"\n", lst[2][0], lst[2][1], lst[2][2], lst[2][3], lst[2][4],

"\n", lst[3][0], lst[3][1], lst[3][2], lst[3][3], lst[3][4],

"\n", lst[4][0])

result = result\_calc()

move += 1

print(result)