Exercise 12

board = [" "]\*9

def printb():

for i in range(3):

print("|".join(board[i\*3:i\*3+3]))

if i < 2: print("-+-+-")

def win(p):

lines = [(0,1,2),(3,4,5),(6,7,8),(0,3,6),(1,4,7),(2,5,8),(0,4,8),(2,4,6)]

return any(all(board[i]==p for i in line) for line in lines)

player = "X"

for \_ in range(9):

printb()

move = int(input(f"{player}'s move (0-8): "))

if board[move] == " ":

board[move] = player

if win(player):

printb()

print(player, "wins!")

break

player = "O" if player=="X" else "X"

else:

print("Spot taken, try again.")

else:

printb()

print("It's a tie!")

