from random import randint

board = []

for x in range(0, 5):

board.append(["O"] \* 5)

def print\_board(board):

for row in board:

print " ".join(row)

print\_board(board)

def random\_row(board):

return randint(0, len(board) - 1)

def random\_col(board):

return randint(0, len(board[0]) - 1)

ship\_row = random\_row(board)

ship\_col = random\_col(board)

print ship\_row

print ship\_col

# Everything from here on should be in your for loop

# don't forget to properly indent!

for turn in range(4):

print "Turn", turn + 1

guess\_row = int(raw\_input("Guess Row: "))

guess\_col = int(raw\_input("Guess Col: "))

if guess\_row == ship\_row and guess\_col == ship\_col:

print "BANG! Congratulations! You sank my battleship!"

break

else:

if guess\_row not in range(5) or \

guess\_col not in range(5):

print "Oops, that's not even in the ocean."

elif board[guess\_row][guess\_col] == "X":

print( "You guessed that one already." )

else:

print "You missed my battleship!"

board[guess\_row][guess\_col] = "X"

if (turn == 3):

print "Game Over"

print\_board(board)

Battleship!

Extra Credit

You can also add on to your Battleship! program to make it more complex and fun to play. Here are some ideas for enhancements—maybe you can think of some more!

1. Make multiple battleships: you’ll need to be careful because you need to make sure that you don’t place battleships on top of each other on the game board. You’ll also want to make sure that you balance the size of the board with the number of ships so the game is still challenging and fun to play.
2. Make battleships of different sizes: this is trickier than it sounds. All the parts of the battleship need to be vertically or horizontally touching and you’ll need to make sure you don’t accidentally place part of a ship off the side of the board.
3. Make your game a two-player game.
4. Use functions to allow your game to have more features like rematches, statistics and more!

Some of these options will be easier after we cover loops in the next lesson. Think about coming back to Battleship! after a few more lessons and see what other changes you can make!