board = []

size = 4

number = 0

def place(row, col):

for (i, j) in board:

if row == i: return True

if col == j: return True

if abs(row - i) == abs(col - j): return True

return False

def placequeen(row):

if row > size:

global number

number += 1

print "Solution " + str(number) + ":" + str(board)

else:

for col in range(1, size + 1):

if not place(row, col):

board.append((row, col))

placequeen(row + 1)

board.remove((row, col))

if \_\_name\_\_ == "\_\_main\_\_":

placequeen(1)

\end{lstlisting}

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

OUTPUT :

student@CC:~/Downloads$ python Queen.py \\

Solution 1:[(1, 2), (2, 4), (3, 1), (4, 3)]\\

Solution 2:[(1, 3), (2, 1), (3, 4), (4, 2)]\\

student@CC:~/Downloads$ \\