x, y = map(int, input("Enter x and y coordinates: ").split())

if x > 0 and y > 0:

print("Quadrant 1")

elif x < 0 and y > 0:

print("Quadrant 2")

elif x < 0 and y < 0:

print("Quadrant 3")

elif x > 0 and y < 0:

print("Quadrant 4")

else:

print("Origin")