This is a tough one! You need to carefully reverse the process presented in the exercise description.

Here a couple of functions written for you:

def rule9b0(b):

#get indexed

row = int(b[0])

col = int(b[1:], 2)

matrix = [['101','010', '001', '110', '011', '100', '111', '000'],

['001', '100', '110', '010', '000','111', '101', '011']

]

return matrix[row][col]

def rule9b1(b):

#get indexed

row = int(b[0])

col = int(b[1:], 2)

matrix = [['100','000','110','101','111','001','011','010'],

['101','011','000','111','110','010','001','100']]

return matrix[row][col]