0,1,0,1,1,0,0,1,0,1,1,0,1,0,0,1,0,1,0,1,1,0,0,1,1,0,1,0,1,0,1,0,0,1,0,1,1,0,1,0,0,1,1,0,0,1,1,0,1,0,0,1,0,1,0,1,1,0,1,0,1,0,0,1,1,0,1,0,0,1,0,1,1,0,0,1,0,1,1,0,1,0,1,0,0,1,0,1,1,0,1,0,0,1,1,0,0,1,1,0,1,1,0,1,0,0,1,0,1,1,0,1,0,0,1,0,1,1,0,0,1,1,0,1,0,1,1,0,1,0,0,1,1,0,1,0,0,1,0,1,1,0,1,0,0,1,0,1,0,1,0,1,0,1,0,1,0,1,1,0,0,1,0,1,1,0,0,1,0,1,1,0,1,0,0,1,1,0,0,1,0,1,1,0,1,0,0,1,1,0,0,1,0,1,0,1,0,1,0,1,0,1,1,0,0,1,0,1,0,1,1,0,1,0,1,0,1,1,0,0,1,0,1,0,1,1,0,1,0,0,1,1,0,0,1,0,1,1,0,1,0,1,0,0,1,1,0,0,1,0,1,0,1,0,1,1,0,1,0,1,0,1,0,1,0,0,1,0,1,1,0,0,1,1,0,0,1,1,0,0,1,1,0,0,1,0,1,1,0,1,0,1,0,1,0,0,1,1,0,0,1,0,1,1,0,1,0,1,0,0,1,1,0,0,1,1,0,1,0,0,1,0,1,1,0,0,1,1,0,0,1,1,0,0,1,1,0,1,0,1,0,1,0,0,1,0,1,0,1,1,0,0,1,1,0,0,1,0,1,1,0,0,1,0,1,1,0,0,1,1,0,0,1,1,0,0,1,1,0,0,1,0,1,1,0,0,1,0,1,1,0,0,1,0,1,1,0,0,1,0,1,0,1,0,1,1,0,1,0,1,0,0,1,0,1,0,1,0,1,0,1,0,1,0,1,0,1,0,1,0,1,0,1,0,1,1,0,0,1,1,0,1,0,1,0,1,0,1,0,1,0,1,0,0,1,0,1,1,0,1,0,1,0,0,1,1,0,0,1,1,0,0,1,1,0,1,0,1,0,1,0,0,1,0,1,1,0,1,0,1,0,0,1,0,1,0,1,1,0,1,0,0,1,1,0,1,0,1,0,1,0,1,0,1,0,0,1,1,0,1,0,0,1,0,1,1,0,0,1,1,0,0,1,1,0,0,1,1,0,0,1,0,1,1,0,1,0,1,0,0,1,1,0,0,1,1,0,0,1,1,0,0,1,0,1,1,0,0,1,1,0,0,1,1,0,0,1,1,0,1,0,1,0,1,0,0,1,1,0,0,1,1,0,0,1,0,1,0,1,1,0,0,1,1,0,1,0,1,0,1,0,1,0,0,1,0,1,0,1,0,1,1,0,1,0,1,0,1,0,1,0,1,0,0,1,0,1,0,1,1,0,0,1,1,0,1,0,0,1,1,0,0,1,1,0,1,0,1,0,1,0,0,1,1,0,0,1,1,0,0,1,0,1,1,0,0,1,0,1,0,1,1,0,0,1,0,1,1,0,1,0,1,0,1,0,1,0,1,0,1,0,0,1,1,0,0,1,0,1,0,1,0,1,0,1,0,1,0,1,0,1,1,0,0,1,0,1,1,0,1,0,1,0,0,1,0,1,1,0,1,0,0,1,0,1,0,1,0,1,0,1,1,0,1,0,1,0,1,0,0,1,0,1,0,1,1,0,0,1,1,0,0,1,1,0,0,1,0,1,0,1,1,0,1,0,1,1,0,1,0,1,0,1,0,1,0,1,0,1,0,0,1,1,0,1,0,0,1,1,0,0,1,1,0,1,0,0,1,1,0,1,0,1,0,0,1,0,1,0,1,1,0,0,1,0,1,0,1,0,1,1,0,0,1,1,0,0,1,0,1,1,0,0,1,1,0,1,0,1,0,0,1,0,1,0,1,0,1,1,0,0,1,0,1,1,0,0,1,0,1,1,0,1,0,0,1,1,0,1,0,1,0,0,1,0,1,1,0,0,1,1,0,1,0,1,0,1,0,0,1,0,1,1,0,1,0,1,0,0,1,0,1,0,1,1,0,0,1,1,0,0,1,1,0,0,1,1,0,0,1,0,1,0,1,1,0,0,1,1,0,0,1,0,1,0,1,1,0,1,0,1,0,1,0,1,0,1,0,1,0,1,0,1,0,0,1,1,0,0,1,0,1,0,1,1,0,0,1,1,0,1,0,0,1,1,0,1,0,0,1,0,1,1,0,0,1,1,0,1,0,0,1,0,1,1,0,0,1,1,0,1,0,1,0,0,1,1,0,1,0,0,1,0,1,1,0,1,0,0,1,0,1,1,0,1,0,1,0,1,0,0,1,0,1,1,0,0,1,0,1,0,1,1,0,1,0,0,1,1,0,0,1,1,0,1,0,1,0,1,0,1,0,0,1,0,1,1,0,0,1,1,0,0,1,0,1,1,0,1,0,1,0,0,1,0,1,0,1,0,1,0,1,1,0,1,0,0,1,0,1,0,1,1,0,0,1,0,1,0,1,0,1,0,1,0,1,0,1,1,0,1,0,0,1,0,1,0,1,1,0,1,0,1,0,0,1,0,1,1,0,1,0,0,1,0,1,0,1,0,1,0,1,0,1,1,0,1,0,0,1,1,0,1,0,0,1,0,1,0,1,0,1,1,0,0,1,0,1,1,0,1,0,1,0,0,1,1,0,0,1,1,0,0,1,0,1,1,0,1,0,0,1,1,0,1,0,0,1,0,1,1,0,0,1,1,0,1,0,0,1,0,1,0,1,0,1,0,1,1,0,1,0,1,0,1,0,1,0,1,0,0,1,0,1,1,0,1,0,1,1,0,1,0,1,1,0,1,0,1,0,1,0,1,0,0,1,1,0,1,0,0,1,0,1,0,1,0,1,1,0,0,1,0,1,1,0,0,1,0,1,1,0,1,0,0,1,0,1,0,1,1,0,0,1,0,1,0,1,0,1,0,1,0,1,0,1,0,1,0,1,1,0,0,1,0,1,0,1,0,1,1,0,1,0,1,0,1,0,0,1,0,1,0,1,1,0,0,1,1,0,0,1,1,0,1,0,1,0,0,1,1,0,1,0,1,0,1,0,1,0,0,1,0,1,1,0,0,1,1,0,0,1,0,1,0,1,1,0,0,1,0,1,0,1,0,1,0,1,0,1,0,1,1,0,1,0,1,0,1,0,1,1,0,0,1,1,0,1,0,1,0,0,1,0,1,0,1,0,1,0,1,1,0,0,1,0,1,0,1,0,1,1,0,0,1,0,1,1,0,1,1,0,1,0,0,1,1,0,0,1,0,1,0,1,0,1,0,1,1,0,1,0,0,1,1,0,0,1,0,1,1,0,0,1,0,1,1,0,0,1,1,0,1,0,1,0,0,1,0,1,1,0,0,1,1,0,0,1,0,1,0,1,1,0,1,0,1,0,0,1,1,0,1,0,1,0,0,1,1,0,0,1,0,1,0,1,1,0,1,0,0,1,1,0,0,1,0,1,0,1,1,0,0,1,1,0,1,0,0,1,1,0,0,1,1,0,0,1,1,0,1,0,0,1,0,1,0,1,0,1,0,1,1,0,0,1,0,1,1,0,1,0,0,1,1,0,0,1,0,1,0,1,0,1,1,0,0,1,0,1,0,1,1,0,1,0,0,1,1,0,1,0,0,1,1,0,1,0,0,1,1,0,1,0,1,0,0,1,0,1,1,0,0,1,0,1,1,0,0,1,1,0,0,1,0,1,0,1,0,1,0,1,1,0,1,0,1,0,1,0,1,0,0,1,0,1,0,1,1,0,1,0,1,0,1,0,0,1,1,0,0,1,0,1,1,0,0,1,1,0,0,1,1,0,0,1,0,1,1,0,0,1,1,0,1,0,1,0,1,0,1,0,1,0,1,0,0,1,1,0,0,1,1,0,1,0,0,1,0,1,1,0,1,0,1,0,0,1,1,0,1,0,1,0,0,1,1,0,0,1,0,1,1,0,1,0,0,1,1,0,1,0,0,1,0,1,0,1,1,0,0,1,0,1,1,0,0,1,1,0,1,0,1,0,0,1,1,0,0,1,0,1,1,0,0,1,0,1,0,1,1,0,1,0,1,0,0,1,0,1,0,1,1,0,1,1,0,1,0,1,0,1,0,0,1,0,1,0,1,0,1,0,1,0,1,0,1,1,0,0,1,0,1,0,1,1,0,0,1,1,0,1,0,1,0,1,0,0,1,0,1,0,1,1,0,0,1,0,1,0,1,0,1,1,0,1,0,0,1,1,0,0,1,0,1,0,1,0,1,0,1,0,1,0,1,1,0,0,1,0,1,0,1,0,1,0,1,0,1,0,1,0,1,0,1,1,0,1,0,1,0,1,0,0,1,0,1,1,0,0,1,0,1,0,1,0,1,0,1,0,1,1,0,0,1,0,1,1,0,1,0,0,1,0,1,1,0,1,0,1,0,0,1,1,0,0,1,0,1,0,1,1,0,1,0,1,0,1,0,0,1,1,0,0,1,0,1,0,1,1,0,1,0,1,0,0,1,0,1,0,1,1,0,0,1,1,0,0,1,1,0,0,1,0,1,1,0,1,0,1,0,1,0,1,0,1,0,0,1,0,1,0,1,0,1,0,1,0,1,1,0,0,1,0,1,0,1,0,1,1,0,1,0,0,1,0,1,0,1,1,0,0,1,1,0,0,1,0,1,0,1,0,1,0,1,0,1,0,1,0,1,1,0,1,0,1,0,0,1,1,0,0,1,0,1,1,0,0,1,1,0,1,0,1,0,1,0,0,1,1,0,0,1,0,1,0,1,1,0,1,0,1,0,0,1,0,1,0,1,0,1,0,1,0,1,1,0,1,0,0,1,0,1,1,0,1,0,1,0,0,1,1,0,0,1,0,1,1,0,0,1,0,1,1,0,1,0,1,0,0,1,1,0,1,0,0,1,1,0,0,1,1,0,0,1,1,0,1,0,1,0,0,1,0,1,0,1,1,0,0,1,0,1,1,0,1,0,0,1,1,0,1,0,1,0,0,1,0,1,1,0,0,1,1,0,0,1,1,0,0,1,1,0,0,1,0,1,0,1,1,0,0,1,1,0,0,1,1,0,1,0,1,0,1,0,0,1,1,0,1,0,1,0,1,0,0,1,1,0,1,0,0,1,0,1,1,0,1,0,0,1,0,1,1,0,0,1,0,1,0,1,1,0,1,0,0,1,1,0,1,0,1,0,1,0,0,1,0,1,1,0,1,0,1,0,1,0,1,0,1,0,0,1,1,0,0,1,0,1,0,1,0,1,0,1,0,1,0,1,1,0,0,1,1,0,0,1,0,1,1,0,0,1,0,1,0,1,1,0,1,0,0,1,0,1,1,0,1,0,1,0,0,1,0,1,1,0,1,0,0,1,0,1,0,1,1,0,1,0,0,1,1,0,0,1,1,0,1,0,0,1,1,0,0,1,1,0,0,1,1,0,0,1,0,1,0,1,0,1,0,1,1,0,1,0,1,0,1,0,1,0,0,1,0,1,0,1,1,0,0,1,0,1,0,1,1,0,0,1,1,0,1,0,1,0,1,0,1,0,0,1,1,0,0,1,1,0,0,1,0,1,0,1,0,1,1,0,0,1,1,0,0,1,0,1,0,1,0,1,1,0,0,1,0,1,0,1,1,0,0,1,1,0,1,0,0,1,1,0,1,0,1,0,1,0,0,1,1,0,1,0,0,1,0,1,1,0,0,1,0,1,1,0,0,1,1,0,1,0,0,1,0,1,0,1,0,1,0,1,0,1,1,0,1,0,1,0,0,1,0,1,0,1,0,1,0,1,0,1,0,1,0,1,1,0,1,0,0,1,1,0,1,0,0,1,0,1,1,0,1,0,1,0,1,0,1,0,1,0,1,0,0,1,0,1,1,0,0,1,0,1,1,0,0,1,1,0,0,1,0,1,1,0,0,1,0,1,1,0,1,0,1,0,1,0,1,0,1,0,1,1,0,0,1,1,0,0,1,0,1,0,1,0,1,0,1,0,1,0,1,1,0,1,0,0,1,0,1,1,0,1,0,1,0,1,0,0,1,0,1,0,1,1,0,0,1,1,0,0,1,0,1,0,1,0,1,1,0,1,0,1,0,1,0,1,0,1,0,1,0,0,1,1,0,1,0,1,0,0,1,0,1,1,0,1,0,1,0,1,0,0,1,1,0,1,0,0,1,1,0,1,0,1,0,1,0,1,0,1,0,0,1,1,0,0,1,0,1,1,0,0,1,1,0,1,0,0,1,1,0,1,0,1,0,1,0,0,1,1,0,0,1,1,0,0,1,0,1,1,0,0,1,0,1,0,1,1,0,1,0,1,0,1,0,1,0,0,1,0,1,0,1,1,0,0,1,1,0,0,1,1,0,0,1,0,1,0,1,1,0,0,1,0,1,0,1,1,0,0,1,0,1,1,0,0,1,0,1,0,1,0,1,0,1,1,0,0,1,1,0,0,1,1,0,1,0,1,0,0,1,1,0,0,1,1,0,1,0,0,1,0,1,0,1,0,1,1,0,0,1,1,0,1,0,0,1,0,1,0,1,0,1,0,1,0,1,1,0,0,1,1,0,0,1,0,1,0,1,0,1,1,0,0,1,0,1,0,1,0,1,0,1,0,1,1,0,0,1,1,0,1,0,1,0,0,1,0,1,0,1,1,0,1,0,1,0,1,0,0,1,0,1,0,1,1,0,0,1,1,0,0,1,1,0,1,0,0,1,1,0,1,0,0,1,1,0,1,0,1,0,0,1,1,0,0,1,0,1,0,1,0,1,1,0,0,1,1,0,1,0,1,0,1,0,1,0,1,0,0,1,1,0,0,1,0,1,0,1,0,1,0,1,0,1,0,1,1,0,0,1,0,1,1,0,0,1,0,1,0,1,0,1,0,1,1,0,1,0,1,0,0,1,1,0,1,0,1,0,0,1,0,1,1,0,0,1,0,1,0,1,0,1,0,1,0,1,1,0,1,0,1,0,0,1,1,0,1,0,1,0,1,0,1,0,1,0,1,0,1,0,1,0,0,1,1,0,1,0,1,0,0,1,1,0,0,1,1,0,1,0,0,1,1,0,1,0,0,1,1,0,1,0,0,1,1,0,1,0,0,1,1,0,1,0,1,0,1,0,0,1,1,0,0,1,0,1,0,1,1,0,0,1,0,1,1,0,1,0,0,1,1,0,0,1,0,1,1,0,0,1,0,1,1,0,1,0,1,0,1,0,1,0,1,0,0,1,1,0,0,1,1,0,1,0,1,0,0,1,0,1,1,0,0,1,0,1,1,0,0,1,0,1,1,0,0,1,0,1,1,0,1,0,0,1,0,1,1,0,1,0,1,0,1,0,1,0,0,1,1,0,1,0,1,0,1,0,0,1,1,0,1,0,0,1,0,1,0,1,1,0,1,0,1,0,1,0,1,0,0,1,0,1,1,0,1,0,1,0,1,0,1,0,0,1,0,1,1,0,1,0,0,1,1,0,1,0,0,1,1,0,0,1,1,0,1,0,0,1,0,1,1,0,1,0,1,0,1,0,0,1,1,0,1,0,1,0,0,1,0,1,1,0,1,0,1,0,1,0,1,0,0,1,0,1,0,1,1,0,1,0,1,0,1,0,1,0,0,1,0,1,0,1,0,1,0,1,0,1,0,1,1,0,1,0,0,1,1,0,0,1,0,1,0,1,0,1,1,0,1,0,1,0,0,1,0,1,0,1,0,1,1,0,0,1,1,0,1,0,1,0,1,0,0,1,1,0,1,0,1,0,1,0,0,1,1,0,1,0,1,0,0,1,0,1,1,0,1,0,1,0,0,1,1,0,1,0,0,1,1,0,0,1,0,1,0,1,0,1,1,0,0,1,0,1,1,0,0,1,1,0,0,1,0,1,1,0,1,0,0,1,0,1,1,0,1,0,1,0,0,1,0,1,1,0,0,1,1,0,1,0,1,0,1,0,0,1,1,0,1,0,0,1,1,0,1,0,1,0,1,0,1,0,0,1,1,0,0,1,1,0,1,0,1,0,1,0,0,1,0,1,1,0,0,1,0,1,1,0,1,0,1,0,1,0,0,1,1,0,1,0,0,1,1,0,1,0,1,0,1,0,0,1,0,1,1,0,1,0,1,0,1,0,1,0,1,0,1,0,0,1,1,0,0,1,1,0,1,0,1,0,1,0,1,0,1,0,1,0,1,0,1,0,0,1,1,0,1,0,1,0,1,0,0,1,0,1,1,0,1,0,1,0,0,1,0,1,1,0,1,0,1,0,0,1,1,0,1,0,0,1,1,0,0,1,1,0,0,1,1,0,1,0,1,0,1,0,1,0,1,0,1,0,0,1,0,1,0,1,0,1,1,0,1,0,0,1,1,0,0,1,1,0,0,1,1,0,0,1,1,0,0,1,0,1,0,1,0,1,1,0,1,0,1,0,0,1,1,0,1,0,0,1,1,0,1,0,1,0,0,1,0,1,1,0,1,0,0,1,1,0,1,0,0,1,1,0,0,1,0,1,1,0,0,1,1,0,1,0,0,1,1,0,0,1,1,0,0,1,0,1,0,1,0,1,0,1,0,1,1,0,1,0,1,0,0,1,1,0,1,0,1,0,1,0,1,0,1,0,1,0,0,1,1,0,1,0,0,1,0,1,0,1,1,0,1,0,0,1,1,0,1,0,0,1,1,0,1,0,1,0,0,1,1,0,0,1,0,1,1,0,1,0,1,0,1,0,0,1,1,0,1,0,1,0,1,0,1,0,0,1,1,0,0,1,0,1,1,0,1,0,0,1,0,1,0,1,1,0,1,0,1,0,1,0,0,1,1,0,0,1,1,0,0,1,0,1,0,1,0,1,0,1,1,0,0,1,1,0,0,1,0,1,0,1,1,0,1,0,0,1,1,0,0,1,0,1,1,0,0,1,1,0,1,0,0,1,1,0,0,1,1,0,1,0,1,0,0,1,0,1,0,1,0,1,0,1,0,1,1,0,0,1,1,0,1,0,0,1,1,0,1,0,1,0,1,0,0,1,1,0,1,0,1,0,0,1,0,1,1,0,0,1,1,0,0,1,0,1,1,0,1,0,1,0,0,1,0,1,0,1,1,0,0,1,1,0,0,1,0,1,1,0,0,1,0,1,1,0,1,0,0,1,0,1,1,0,1,0,0,1,0,1,1,0,0,1,1,0,1,0,0,1,1,0,1,0,1,0,0,1,1,0,1,0,1,0,1,0,1,0,0,1,0,1,0,1,1,0,1,0,1,0,0,1,1,0,1,0,1,0,0,1,1,0,1,0,1,0,1,0,1,0,1,0,1,0,1,0,1,0,1,0,1,0,0,1,0,1,0,1,0,1,1,0,1,0,1,0,0,1,1,0,1,0,1,0,1,0,0,1,1,0,0,1,0,1,1,0,1,0,1,0,1,0,1,0,0,1,0,1,1,0,0,1,1,0,1,0,1,0,0,1,1,0,1,0,0,1,1,0,1,0,1,0,1,0,0,1,0,1,1,0,1,0,1,0,1,0,0,1,1,0,1,0,1,0,1,0,1,0,1,0,1,0,0,1,0,1,0,1,1,0,1,0,0,1,1,0,0,1,1,0,0,1,0,1,1,0,1,0,1,0,0,1,1,0,1,0,1,0,0,1,1,0,0,1,0,1,1,0,0,1,0,1,0,1,0,1,1,0,0,1,0,1,1,0,0,1,0,1,1,0,1,0,1,0,0,1,1,0,1,0,1,0,1,0,0,1,1,0,0,1,0,1,0,1,0,0,1,1,0,0,1,1,0,1,0,1,0,1,0,1,1,0,1,0,1,0,1,0,1,0,1,0,1,0,0,1,1,0,0,1,0,1,1,0,1,0,0,1,1,0,1,0,0,1,0,1,0,1,1,0,0,1,1,0,0,1,1,0,1,0,1,0,0,1,1,0,0,1,0,1,1,0,0,1,0,1,0,1,0,1,1,0,1,0,1,0,0,1,1,0,1,0,1,0,0,1,0,1,0,1,0,1,0,1,1,0,1,0,1,0,1,0,1,0,1,0,1,0,1,0,0,1,1,0,0,1,1,0,1,0,0,1,1,0,0,1,0,1,0,1,0,1,0,1,1,0,1,0,0,1,0,1,0,1,0,1,0,1,0,1,1,0,0,1,1,0,1,0,0,1,0,1,1,0,0,1,1,0,0,1,1,0,0,1,0,1,1,0,0,1,1,0,1,0,1,0,0,1,1,0,1,0,0,1,0,1,0,1,1,0,0,1,0,1,0,1,1,0,1,0,1,0,0,1,0,1,1,0,1,0,0,1,0,1,1,0,0,1,1,0,1,0,0,1,0,1,1,0,1,0,0,1,1,0,1,0,0,1,0,1,1,0,1,0,1,0,0,1,0,1,0,1,1,0,1,0,1,0,0,1,1,0,0,1,1,0,0,1,1,0,1,0,0,1,1,0,1,0,0,1,1,0,0,1,1,0,1,0,1,0,0,1,1,0,0,1,1,0,1,0,1,0,0,1,0,1,1,0,1,0,1,0,0,1,1,0,1,0,0,1,0,1,0,1,0,1,1,0,0,1,0,1,0,1,1,0,1,0,1,0,0,1,0,1,1,0,0,1,1,0,1,0,0,1,0,1,0,1,0,1,0,1,1,0,0,1,0,1,0,1,1,0,1,0,1,0,0,1,1,0,1,0,0,1,0,1,1,0,0,1,0,1,1,0,1,1,0,1,0,1,0,1,0,0,1,0,1,0,1,0,1,0,0,1,1,0,0,1,0,1,0,1,1,0,1,0,1,0,1,0,0,1,1,0,0,1,1,0,1,0,1,0,0,1,0,1,1,0,1,0,0,1,1,0,0,1,1,0,1,0,1,0,1,0,1,0,0,1,1,0,1,0,1,0,0,1,1,0,0,1,0,1,0,1,1,0,1,0,1,0,0,1,1,0,0,1,1,0,1,0,1,0,0,1,0,1,0,1,1,0,0,1,1,0,1,0,1,0,1,0,1,0,1,0,1,0,0,1,0,1,0,1,0,1,1,0,0,1,1,0,1,0,1,0,1,0,1,0,1,0,1,0,0,1,1,0,1,0,1,0,0,1,1,0,1,0,0,1,1,0,1,0,1,0,0,1,1,0,1,0,1,0,1,0,1,0,1,0,1,0,1,0,0,1,1,0,0,1,1,0,0,1,0,1,0,1,1,0,0,1,0,1,1,0,0,1,1,0,0,1,1,0,0,1,1,0,0,1,0,1,0,1,0,1,1,0,0,1,1,0,0,1,1,0,1,0,1,0,0,1,0,1,0,1,0,1,0,1,1,0,1,0,0,1,0,1,0,1,1,0,1,0,1,0,0,1,0,1,1,0,1,0,0,1,0,1,1,0,0,1,1,0,1,0,0,1,1,0,1,0,0,1,1,0,0,1,0,1,1,0,1,0,1,0,1,0,0,1,1,0,0,1,0,1,1,0,1,0,1,0,1,0,0,1,1,0,0,1,1,0,0,1,1,0,1,0,1,0,1,0,0,1,0,1,1,0,1,0,1,0,1,0,0,1,0,1,1,0,0,1,1,0,1,0,1,0,0,1,1,0,1,0,1,0,1,0,1,0,0,1,0,1,1,0,1,0,1,0,0,1,0,1,1,0,1,0,0,1,1,0,0,1,1,0,1,0,1,0,0,1,1,0,1,0,0,1,1,0,1,0,0,1,0,1,1,0,1,0,1,0,1,0,1,0,0,1,0,1,1,0,1,0,1,0,0,1,0,1,1,0,0,1,1,0,1,0,1,0,0,1,0,1,1,0,1,0,1,0,1,0,1,0,1,0,1,0,1,0,1,0,0,1,0,1,0,1,0,1,1,0,1,0,1,0,0,1,0,1,0,1,1,0,0,1,1,0,0,1,0,1,1,0,0,1,1,0,0,1,1,0,1,0,0,1,0,1,1,0,1,0,1,0,0,1,0,1,0,1,1,0,0,1,1,0,1,0,0,1,0,1,1,0,0,1,0,1,0,1,0,1,0,1,0,1,0,1,1,0,0,1,0,1,0,1,0,1,1,0,0,1,0,1,0,1,0,1,1,0,0,1,1,0,0,1,0,1,0,1,0,1,0,1,0,1,1,0,0,1,1,0,0,1,0,1,1,0,1,0,1,0,0,1,1,0,0,1,1,0,0,1,1,0,1,0,0,1,0,1,0,1,1,0,0,1,1,0,1,0,0,1,1,0,0,1,0,1,1,0,1,0,0,1,0,1,0,1,0,1,0,1,1,0,1,0,1,0,0,1,1,0,0,1,1,0,1,0,1,0,1,0,0,1,0,1,1,0,1,0,0,1,0,1,1,0,1,0,1,0,0,1,0,1,0,1,1,0,1,0,0,1,0,1,1,0,1,0,0,1,1,0,0,1,0,1,0,1,0,1,0,1,0,1,0,1,1,0,1,0,1,0,0,1,1,0,0,1,0,1,1,0,0,1,0,1,1,0,1,0,1,0,0,1,0,1,0,1,1,0,0,1,1,0,0,1,1,0,1,0,0,1,1,0,0,1,1,0,1,0,1,0,1,0,0,1,1,0,0,1,1,0,0,1,1,0,0,1,0,1,0,1,1,0,1,0,1,0,0,1,1,0,0,1,1,0,1,0,0,1,1,0,0,1,1,0,0,1,1,0,0,1,1,0,0,1,