```
BALL_Y=[4800, 4000, 2400, 3200, 2400, 4000, 4000, 5600, 5600, 5600, 4000, 2400, 2400, 2400, 5600, 5600]

BALL_Y=[4800, 4000, 2400, 3200, 2400, 3200, 4800, 4000, 5600, 6400, 800, 1600, 2400, 3200, -3200, -2400, -1600]

EUNDP_X=[-1315, 88, -1168, 96, -581, 25, -583, 86, 6, 46, -140, 47, 580, 37, 712, 96, 1109, 59, 1241, 62, 1541, 2, 1541, 2, 1541, 2, 1541, 2, 1466, 99, 1466, 99, 1541, 2, 1541, 2]
BUNE_Y=[1268.35, 1268.35, 963.79, 1119.07, 1268.35, 1268.35, 1133.21, 1265.45, 1133.21, 1265.45, 840.71, 980.79, 420.3, 280.13, -140.29, -280.45, -840.95, -700.87]
BUMP_Y=[1268.35,1268.35,
print("BALL_X=",BALL_X)
print("BALL_Y=",BALL_Y)
print("BUMP_X=",BUMP_X)
print("BUMP_Y=",BUMP_Y)
                                              BALL_x/y 座標及 BUMP_x/y 座標
start_nodeX=np.zeros((int(len(BALL_X)/2)))
end_nodeX=np.zeros((int(len(BALL_X)/2)))
start nodeY=np.zeros((int(len(BALL X)/2)))
end_nodeY=np.zeros((int(len(BALL_X)/2)))
count=0
#for i in range(0,len(BALL_X),2)
     start nodeX[count]=(BALL X[i]+BALL X[i+1])/2
      end_nodeX[count]=(BUMP_X[i]+BUMP_X[i+1])/2
start_nodeY[count]=(BALL_Y[i]+BALL_Y[i+1])/2
      end_nodeY[count]=(BUMP_Y[i]+BUMP_Y[i+1])/2
      count=count+1
for i in range(0, len(BALL_X), 2):
    start_nodeX[count]=BALL_X[i]
     end_nodeX[count]=BUMP_X[i]
     start nodeY[count]=BALL Y[i]
     end_nodeY[count]=BUMP_Y[i]
count-count-fi
print("start_nodeX=",start_nodeX)
print("start_nodeY=",start_nodeY)
print("end_nodeX=",end_nodeX)
print("end_nodeY=",end_nodeX)
start_row_data=np.zeros((int(len(BALL_X)/2)))
goal_row_data=np.zeros((int(len(BALL_X)/2)))
start_col_data=np.zeros((int(len(BALL_X)/2)))
                                                               等比例縮小
goal_col_data=np.zeros((int(len(BALL_X)/2)))
          in range(len(start nodeX)):
     start_row_data[i]=int((start_nodeX[i]+7000)/219)
     goal row data[i]=int((end nodeX[i]+7000)/219)
     start_col_data[i]=int((start_nodeY[i]+7000)/219)
     goal_col_data[i]=int((end_nodeY[i]+7000)/219)
```