```
if episode > 20000:
    alpha = 0.1
elif episode > 30000:
    alpha = 0.05
```

L(earning) Agent will learn now using Q-Learning in the Public Civility Game.

Learning Process started. Will finish when Episode = 15000

Policy with the weights: [1.0, 0.31, 0.013]
Expected value is: [7.0, 0.0, -3.375]

The Learnt Policy has the following Value for alpha = 0.2 is:
[8.55080744 -9.64749714 -4.09623583]

The Learnt Policy has the following Value for alpha = 0.25 is:
[4.797693   -1.07469317 -1.62989085]

The Learnt Policy has the following Value for alpha = 0.3 is:
[7.02975442 -2.03605861 -1.96554131]

The Learnt Policy has the following Value for alpha = 0.35 is:
[7.19568316 -2.3169749 -2.97896   ]

The Learnt Policy has the following Value for alpha = 0.39999999999999997 is:
[7.02880337 -2.34438782 -1.02314588]

The Learnt Policy has the following Value for alpha = 0.44999999999999996 is:
[7.08596396 -0.61400926 -3.75543229]

The Learnt Policy has the following Value for alpha = 0.49999999999999994 is:
[7.13320281 -1.1450981 -4.89714736]

The Learnt Policy has the following Value for alpha = 0.5499999999999999 is:
[6.99068491e+00 -1.30935624e-16 -2.42880400e+00]

The Learnt Policy has the following Value for alpha = 0.5999999999999999 is:
[6.98945452e+00 -1.00723151e-12 -3.86508042e+00]

The Learnt Policy has the following Value for alpha = 0.6499999999999999 is:
[6.99841524e+00 -3.99583826e-16 -5.28790223e+00]

The Learnt Policy has the following Value for alpha = 0.7 is:
[6.99726842e+00 -3.85649988e-50 -3.23592751e+00]
This alpha works!

The Learnt Policy has the following Value for alpha = 0.7499999999999998 is:
[6.99510107e+00 -4.83570328e-03 -2.77400762e+00]

The Learnt Policy has the following Value for alpha = 0.7999999999999998 is:
[6.97437283e+00 -2.17554122e-20 -3.24024253e+00]
This alpha works!

Policy with the weights: [1.0, 0.372, 1.5]
Expected value is: [6.03125, 0.0, 0.0]

The Learnt Policy has the following Value for alpha = 0.2 is:
[4.8398849 -0.59103462 0.   ]

The Learnt Policy has the following Value for alpha = 0.25 is:
[6.84027192e+00 -5.08580735e+00 -1.87077932e-11]

The Learnt Policy has the following Value for alpha = 0.3 is:
[5.12096370e+000 -1.12939293e+000 -5.54238094e-109]

The Learnt Policy has the following Value for alpha = 0.35 is:
[5.41789551e+00 -1.05228271e+00 -1.09145368e-90]

The Learnt Policy has the following Value for alpha = 0.39999999999999997 is:
[6.05825121e+00 -1.48976161e+00 -4.90921323e-23]

The Learnt Policy has the following Value for alpha = 0.44999999999999996 is:
[6.22034732e+00 -1.90739842e+00 -1.01205729e-50]

The Learnt Policy has the following Value for alpha = 0.49999999999999994 is:
[6.18905961e+00 -7.73438569e-01 -1.09507529e-19]

The Learnt Policy has the following Value for alpha = 0.5499999999999999 is:
[5.87258495e+00 -4.15383753e-04 -1.33541696e-11]
This alpha works!

The Learnt Policy has the following Value for alpha = 0.5999999999999999 is:
[5.27315978e+00 -1.13567120e-04 -2.74849165e-04]

The Learnt Policy has the following Value for alpha = 0.6499999999999999 is:
[6.13849087e+00 -6.10114701e-13 -8.37086603e-23]
This alpha works!

The Learnt Policy has the following Value for alpha = 0.7 is:
[6.13135679e+00 -1.98071333e-03 -6.51747406e-08]
This alpha works!

The Learnt Policy has the following Value for alpha = 0.7499999999999998 is:
[6.20436947e+00 -1.18059162e-02 -5.68867980e-18]
This alpha works!

The Learnt Policy has the following Value for alpha = 0.7999999999999998 is:
[5.88407286e+00 -1.43343663e-11 -1.49875038e-11]
This alpha works!

Policy with the weights: [1.0, 0.09, 1e-09]
Expected value is: [10.0, -20.0, -4.0]

The Learnt Policy has the following Value for alpha = 0.2 is:
[9.79548228 -20.35685118 -4.56674485]

The Learnt Policy has the following Value for alpha = 0.25 is:
[10.   -20.10995116 -4.47897897]

The Learnt Policy has the following Value for alpha = 0.3 is:
[8.72484813 -17.72274772 -4.7545603]

The Learnt Policy has the following Value for alpha = 0.35 is:
[8.56307771 -10. -2.43753029]

The Learnt Policy has the following Value for alpha = 0.39999999999999997 is:
[8.99999999 -13.31620926 -4.51159941]

The Learnt Policy has the following Value for alpha = 0.44999999999999996 is:
[9.20925908 -20.76088992 -4.85143502]

The Learnt Policy has the following Value for alpha = 0.49999999999999994 is:
[9.71313908 -20.3771305 -3.54939623]

The Learnt Policy has the following Value for alpha = 0.5499999999999999 is:
[8.99951128 -15.03886477 -4.76691829]

The Learnt Policy has the following Value for alpha = 0.5999999999999999 is:
[9. -10. -1.93123341]

The Learnt Policy has the following Value for alpha = 0.6499999999999999 is:
[9. -10. -1.40215043]

The Learnt Policy has the following Value for alpha = 0.7 is:
[9. -10. -2.01330562]

The Learnt Policy has the following Value for alpha = 0.7499999999999998 is:
[9. -10. -1.42559213]

The Learnt Policy has the following Value for alpha = 0.7999999999999998 is:
[9. -10. -1.37421034]

Policy with the weights: [1.0, 0.045, 0.233]
Expected value is: [10.0, -30.0, -0.75]

The Learnt Policy has the following Value for alpha = 0.2 is:
[9.62243345 -30. -0.71202434]
This alpha works!

The Learnt Policy has the following Value for alpha = 0.25 is:
[7.33937504 -16.39387756 -0.14998708]

The Learnt Policy has the following Value for alpha = 0.3 is:
[8.4285092 -10.15954678 -0.44167342]

The Learnt Policy has the following Value for alpha = 0.35 is:
[9.81075223 -26.21525938 -0.56742457]

The Learnt Policy has the following Value for alpha = 0.39999999999999997 is:
[8.732098 -13.8990111 -0.55821804]

The Learnt Policy has the following Value for alpha = 0.44999999999999996 is:
[9.81079324 -26.21586472 -0.56762027]

The Learnt Policy has the following Value for alpha = 0.49999999999999994 is:
[9.03333211 -10.70368744 -0.67355463]

The Learnt Policy has the following Value for alpha = 0.5499999999999999 is:
[9.00001312 -10.00026244 -0.80695753]

The Learnt Policy has the following Value for alpha = 0.5999999999999999 is:
[9.98198642 -29.63973164 -0.97860773]

The Learnt Policy has the following Value for alpha = 0.6499999999999999 is:
[10. -30. -0.6915249]
This alpha works!

The Learnt Policy has the following Value for alpha = 0.7 is:
[9.66386561 -23.27731222 -0.63152754]

The Learnt Policy has the following Value for alpha = 0.7499999999999998 is:
[9.0000013 -10.00002853 -0.29181369]

The Learnt Policy has the following Value for alpha = 0.7999999999999998 is:
[9.3276787 -16.55359815 -0.92250749]

Policy with the weights: [1.0, 0.372, 1.5]
Expected value is: [6.03125, 0.0, 0.0]

The Learnt Policy has the following Value for alpha = 0.2 is:
[5.18354379 -2.51812902 0.]

The Learnt Policy has the following Value for alpha = 0.25 is:
[5.09831335e+00 -1.28627253e+00 -1.97593272e-47]

The Learnt Policy has the following Value for alpha = 0.3 is:
[5.45462049 -1.82384318 0.]

The Learnt Policy has the following Value for alpha = 0.35 is:
[5.59233661e+00 -1.09014985e+00 -6.72105311e-86]

The Learnt Policy has the following Value for alpha = 0.39999999999999997 is:
[5.62125274e+00 -3.94420857e-01 -4.17598237e-08]

The Learnt Policy has the following Value for alpha = 0.44999999999999996 is:
[5.71817066e+00 -1.11285854e+00 -6.50268140e-82]

The Learnt Policy has the following Value for alpha = 0.49999999999999994 is:
[6.05696430e+00 -1.69184369e+00 -3.74244865e-40]

The Learnt Policy has the following Value for alpha = 0.5499999999999999 is:
[5.75843119e+00 -9.35361069e-06 -3.14272943e-12]
This alpha works!

The Learnt Policy has the following Value for alpha = 0.5999999999999999 is:
[5.94464474e+00 -1.79331743e-01 -4.45230729e-20]
This alpha works!

The Learnt Policy has the following Value for alpha = 0.6499999999999999 is:
[5.75235270e+00 -8.29903114e-20 -1.96049885e-21]
This alpha works!

The Learnt Policy has the following Value for alpha = 0.7 is:
[5.82005624e+00 -3.03542205e-09 -1.76005813e-14]
This alpha works!

The Learnt Policy has the following Value for alpha = 0.7499999999999998 is:

[6.02631446e+00 -1.70141183e-04 -1.42633315e-06]
This alpha works!

The Learnt Policy has the following Value for alpha = 0.7999999999999998 is:
[6.32567823e+00 -1.43756885e-17 -2.32580495e-19]
This alpha works!

Policy with the weights: [1.0, 0.005, 0.633]
Expected value is: [9.625, -30.0, 0.0]

The Learnt Policy has the following Value for alpha = 0.2 is:
[9.50761395e+00 -3.00000000e+01 -1.95078529e-94]
This alpha works!

The Learnt Policy has the following Value for alpha = 0.25 is:
[9.60164151e+00 -3.00000000e+01 -1.40785392e-57]
This alpha works!

The Learnt Policy has the following Value for alpha = 0.3 is:
[9.72450373e+00 -3.00000000e+01 -6.41751121e-60]
This alpha works!

The Learnt Policy has the following Value for alpha = 0.35 is:
[8.53753835e+00 -1.00712479e+01 -3.33383871e-13]

The Learnt Policy has the following Value for alpha = 0.39999999999999997 is:
[8.73119293e+000 -1.53761413e+001 -7.78979683e-165]

The Learnt Policy has the following Value for alpha = 0.44999999999999996 is:
[9.56911700e+00 -3.00000000e+01 -4.03714704e-30]
This alpha works!

The Learnt Policy has the following Value for alpha = 0.49999999999999994 is:
[8.80128470e+00 -1.33397874e+01 -6.71239085e-43]

The Learnt Policy has the following Value for alpha = 0.5499999999999999 is:
[9.63952301e+00 -3.00000000e+01 -3.57031001e-79]
This alpha works!

The Learnt Policy has the following Value for alpha = 0.5999999999999999 is:
[9.30092711e+00 -2.99967715e+01 -8.86175978e-10]
This alpha works!

The Learnt Policy has the following Value for alpha = 0.6499999999999999 is:
[9.75243086e+00 -3.00000000e+01 -2.33035623e-26]
This alpha works!

The Learnt Policy has the following Value for alpha = 0.7 is:
[9.63645603e+00 -2.99999931e+01 -4.31753818e-37]
This alpha works!

The Learnt Policy has the following Value for alpha = 0.7499999999999998 is:
[9.76881452e+00 -3.00000000e+01 -2.64563260e-96]
This alpha works!

The Learnt Policy has the following Value for alpha = 0.7999999999999998 is:
[9.88847541e+00 -2.99999839e+01 -1.11317216e-52]
This alpha works!

Finnished!!!
[[0.7, 0.8], [0.55, 0.65, 0.7, 0.75, 0.8], [], [0.2, 0.65], [0.55, 0.6, 0.65, 0.7, 0.75, 0.8], [0.2, 0.25, 0.3, 0.45, 0.55, 0.6, 0.65, 0.7, 0.75, 0.8]]