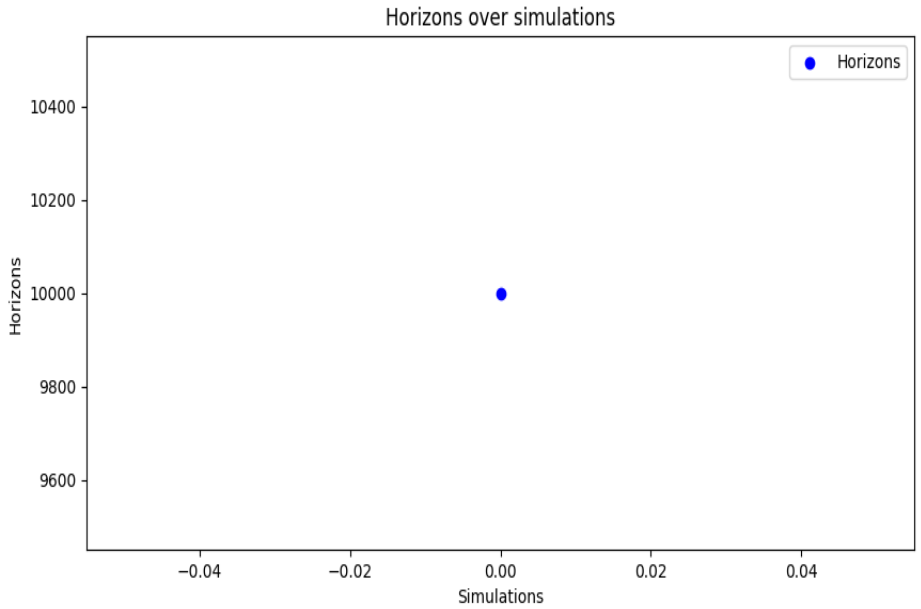
Test done 2025_06_26 at 11_40_16

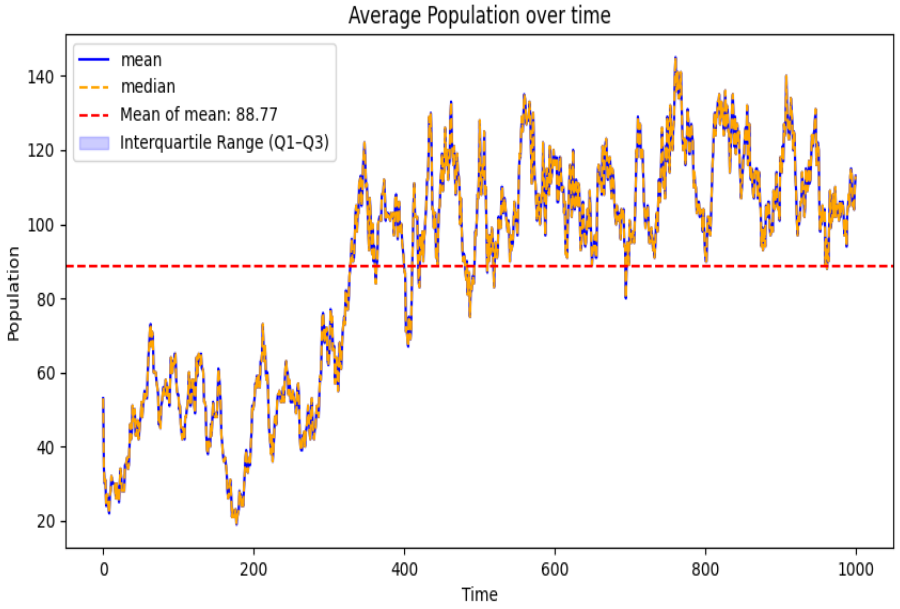
Number of simulation done : 1. The window time of the simulation is 10

Initial condition

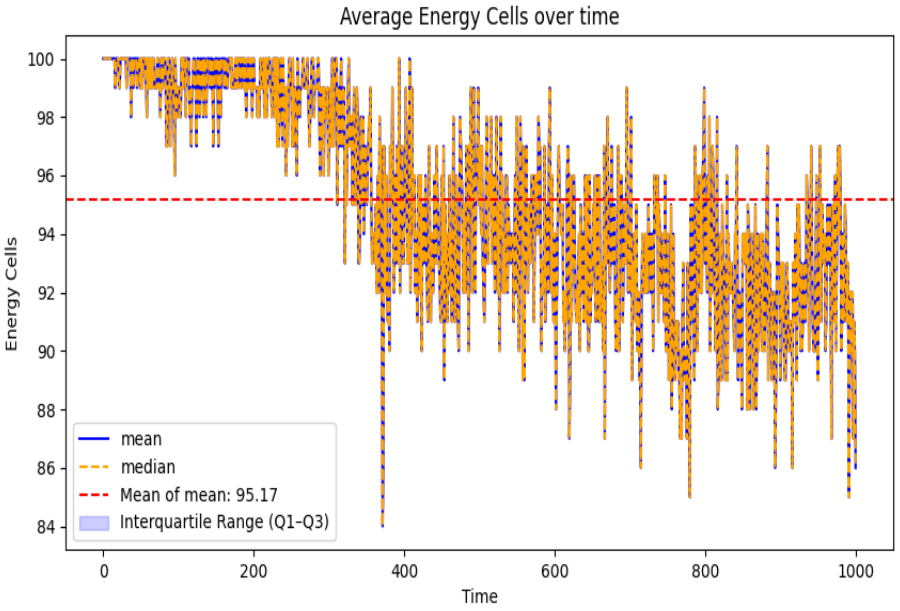
Size : 100
I_Energy : 120
I_Age : 100
I_Maturity : 20
I_Distr : Behaviors Corners
Radius : 6
Active : 100
C_Min : 15
C_Max : 150
C_Regen : 5
C_Distr : Uniform
Height : 60
Width : 60
P_Distr : Uniform
Move : 1
Eat : 2
Rest : 0
Reproduce : 5
N_Simulations : 1
Seed : 100
Energy Needed : 0.6
Extra Energy : 0.2
Energy Requeste : 0.5
Mutation Rate : 0.1



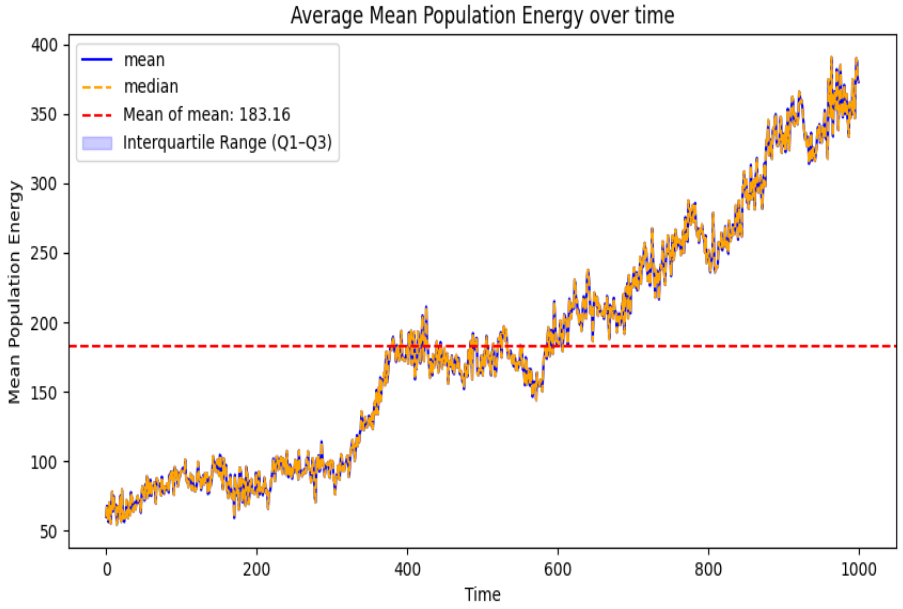
Mean : 10001.0
Variance : 0.0



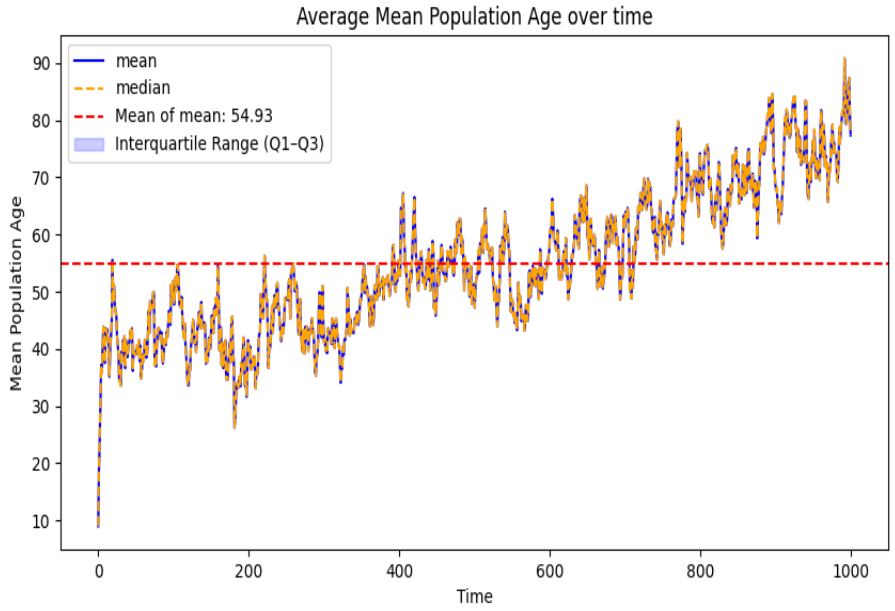
Mean : 88.772
Variance : 936.680016



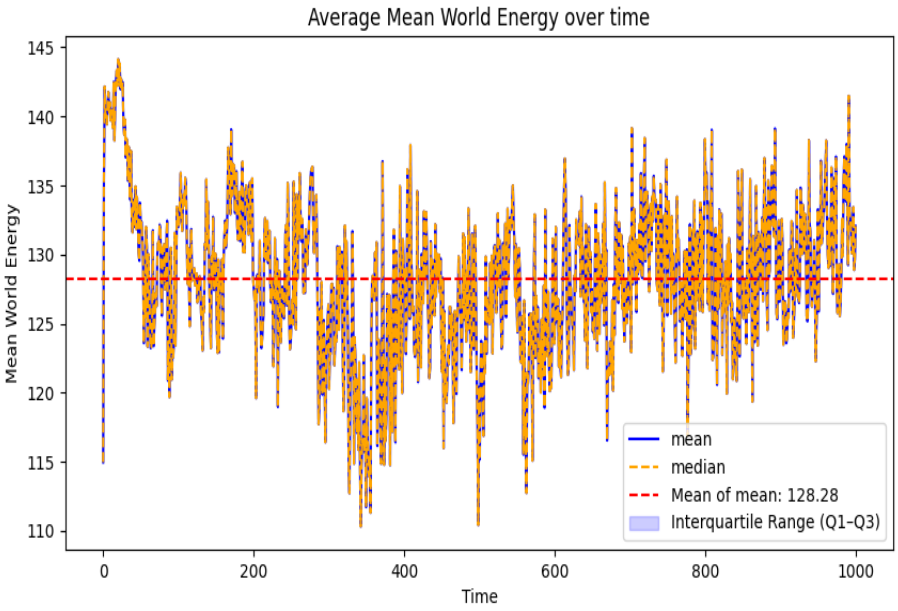
Mean : 95.168
Variance : 12.893775999999997



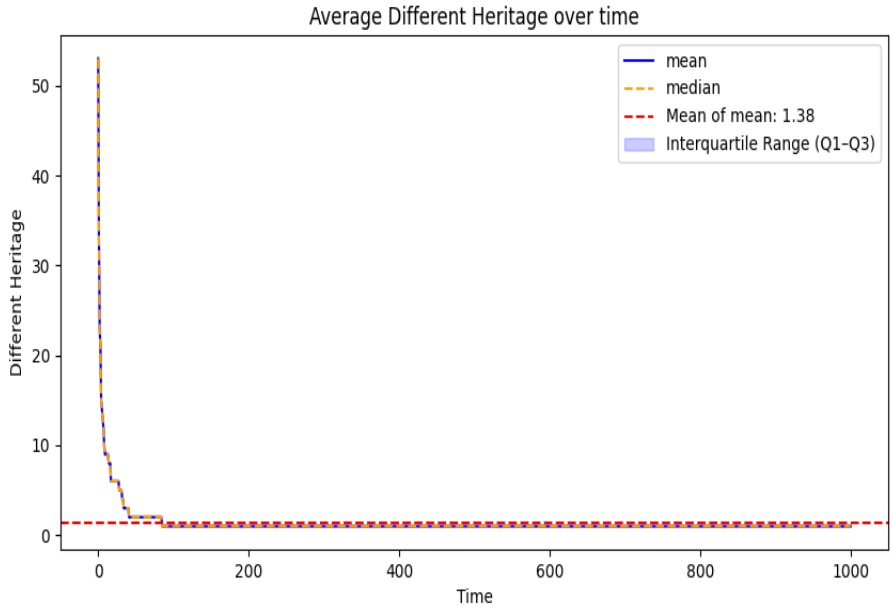
Mean : 183.1613718330183
Variance : 7860.602070078934



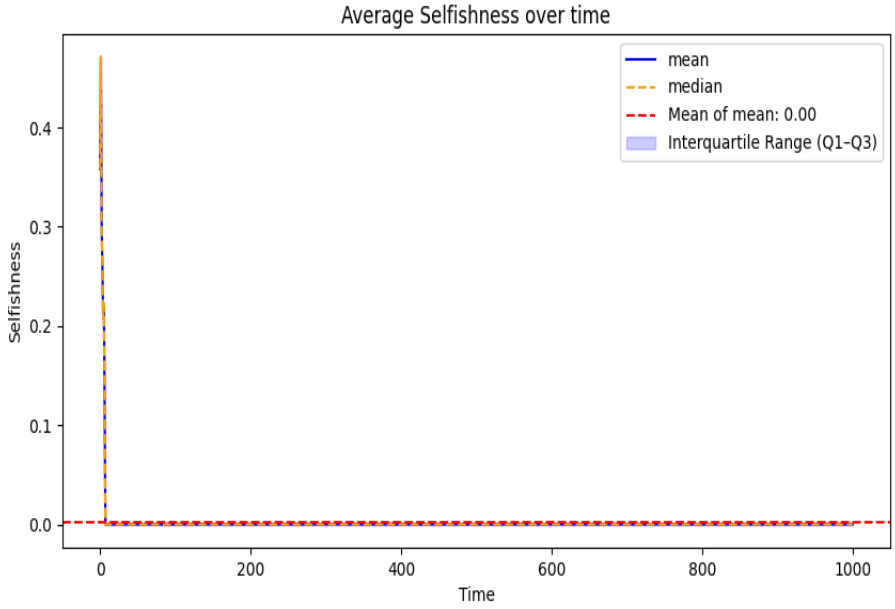
Mean : 54.92622658196313
Variance : 158.40307359481162



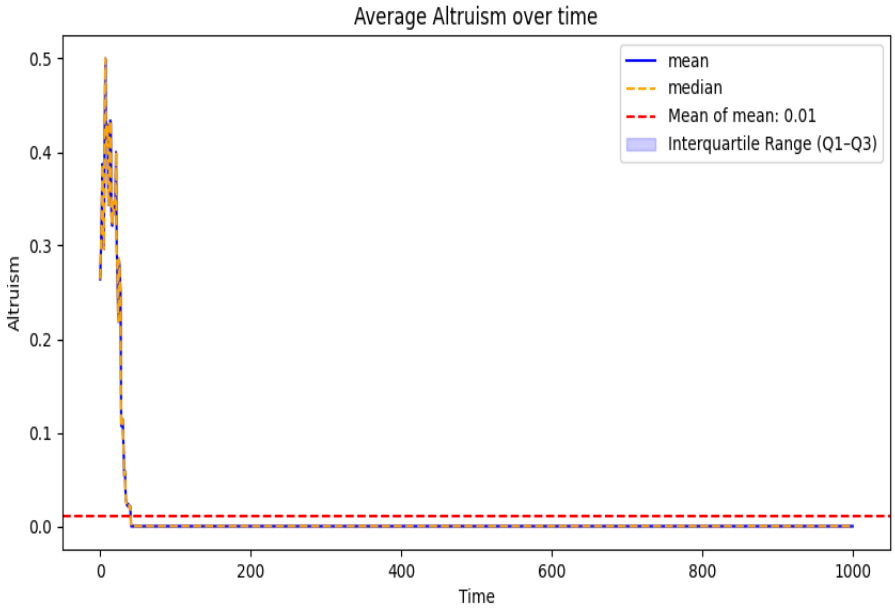
Mean : 128.28072241739295
Variance : 29.48931055475841



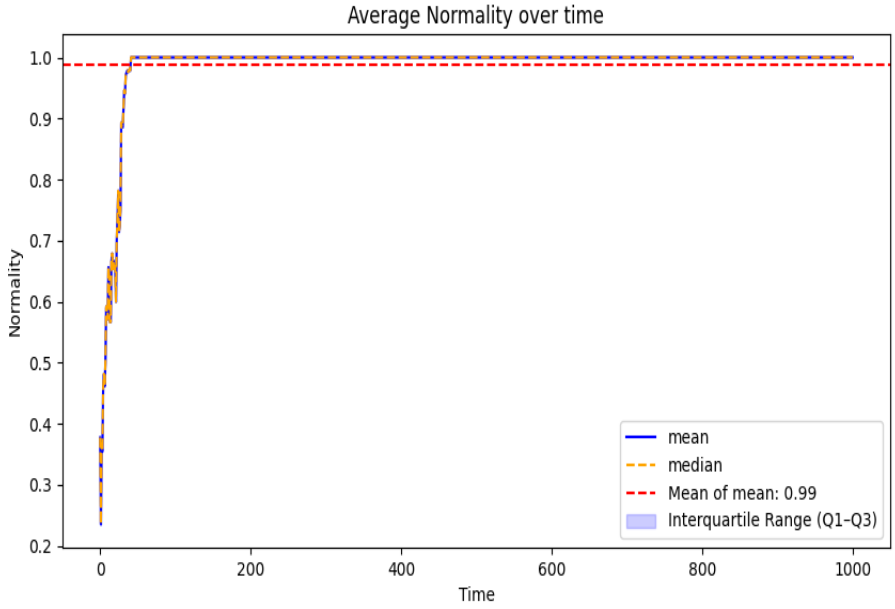
Mean : 1.381
Variance : 6.0738389999999995



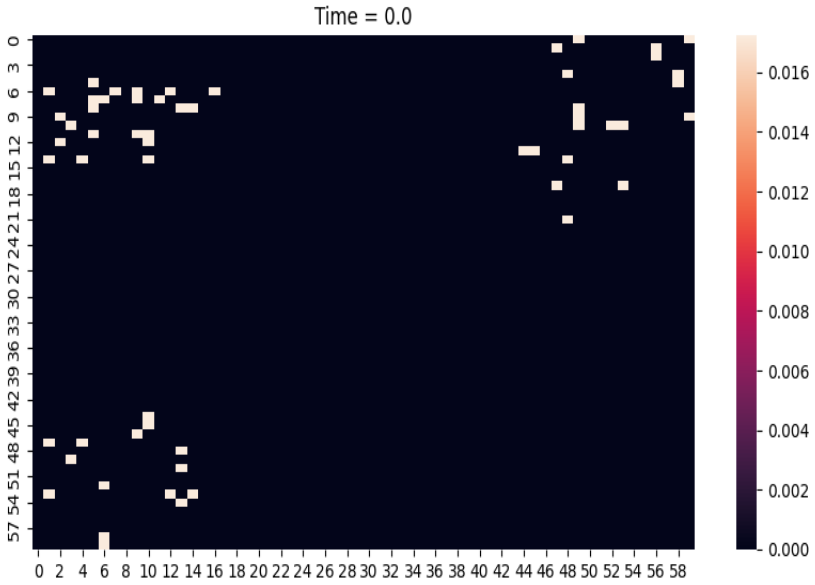
Mean : 0.0019330834884010567
Variance : 0.0006089283591416868

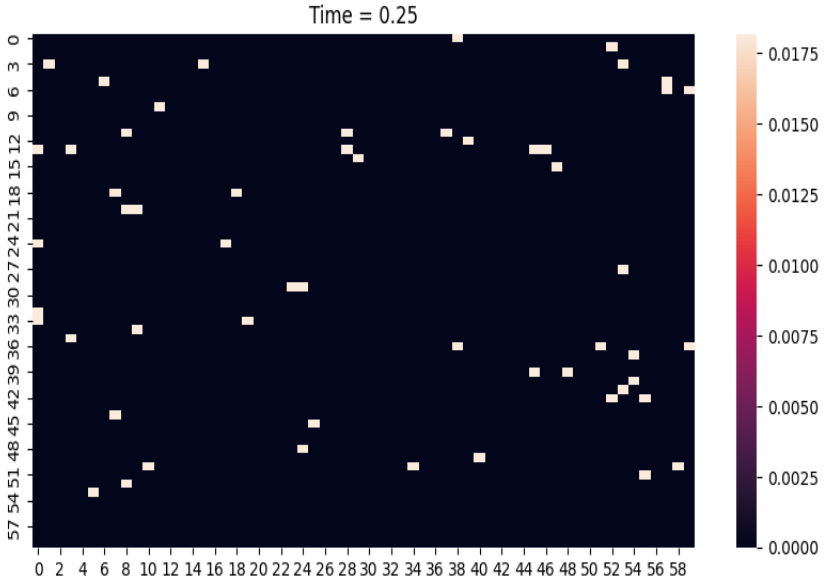


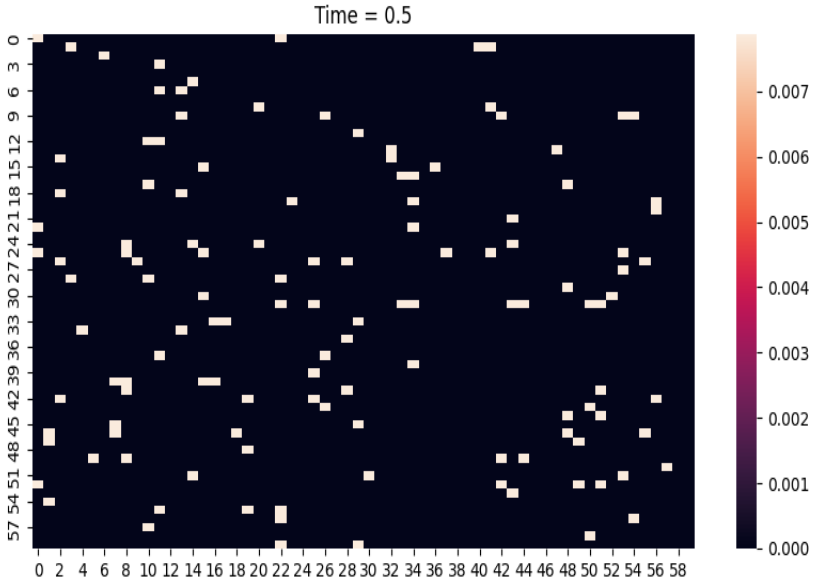
Mean : 0.010356650122683268
Variance : 0.003401518104665302

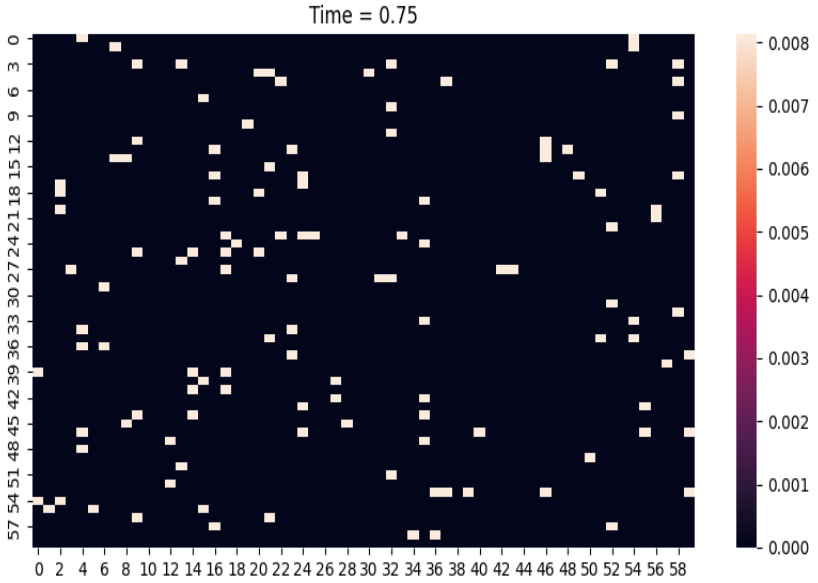


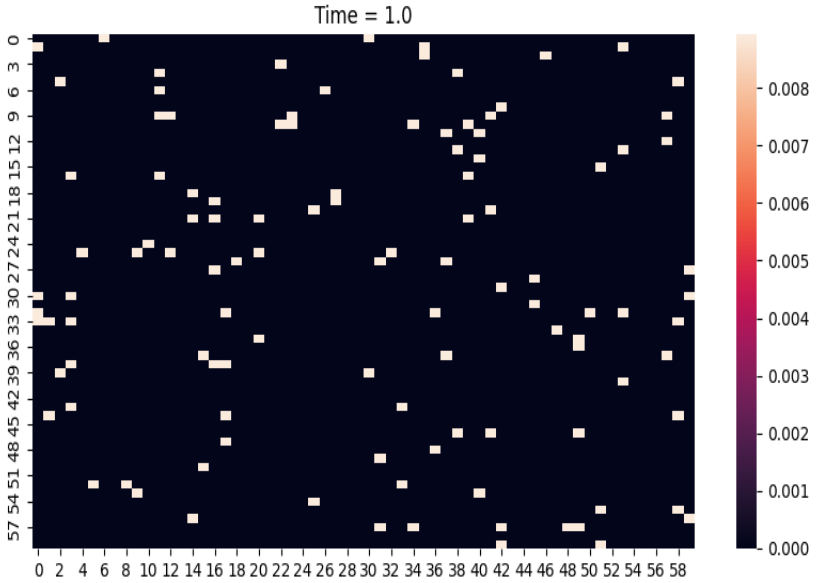
Mean : 0.9877102663889157
Variance : 0.005204614927780603
Spatial Distribution Density Heatmap




Time = 0.25
0 3 6 9 12 15 18 21 24 27 30 33 36 39 42 45 48 51 54 57
0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44 46 48 50 52 54 56 58
0.0175
0.0150
0.0125
0.0100
0.0075
0.0050
0.0025
0.0000


Time = 0.5
0 3 6 9 12 15 18 21 24 27 30 33 36 39 42 45 48 51 54 57
0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44 46 48 50 52 54 56 58
0.007
0.006
0.005
0.004
0.003
0.002
0.001
0.000





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Year : 2024/2025
This Project is done for the academic purpose of implementing the practical part of the Degree Thesis in Artificial Intelligence and Data Analytics.