

```
1 C:\Users\malre\anaconda3\envs\simulations\python.exe C:/Users/malre/PycharmProjects/PebbleTransactionSimulation/main.py
2 Pebble Network Simulator
3
4 Running for 3 cycles, with the number of transactions at a time varying from 2 to 5
5
6
7 Num of transactions in cycle -- 1 are -- 3
8
9 For transaction -      30565a8911a6bb487e3745c0ea3c8224
10 Primary Node      6b34f6524e20ae4138b7106afd68b786
11 Primary Node Index      8
12 Primary Clock      (0, 0, 0, 0, 0, 0, 0, 0, 1, 0, 0, 0)
13
14 Secondary Nodes      ['6d691284c263f459251e469e61239e59', '053c735f1695ffa2e932d0e24d96e685', 'e273fe47bf3984ac83e536042760b801', '6cc5e96c6dbacd8f05b24204ef2a2d8e']
15 Secondary Node Indices      [11, 4, 7, 5]
16 Secondary Clock      [(0, 0, 0, 0, 0, 0, 0, 1, 0, 0, 2), (0, 0, 0, 0, 2, 0, 0, 0, 1, 0, 0, 0), (0, 0, 0, 0, 0, 0, 0, 2, 1, 0, 0, 0), (0, 0, 0, 0, 0, 2, 0, 0, 1, 0, 0, 0)]
17
18 Ternary Nodes      [[ 'e5b1a0fafa6d61ec2c13821aad88d8de', '65f5c57570c94ce851f77d296a410609'], ['eaae467480520c30e3e47c073fdf5120', '892b80343619b8428729fa018c1a12e6'], ['
9f195c101a3c7acf42d5e730570ade70', '743ecf4691e3cc670949cb96779d65ac'], ['7356bc7f44bac86bca587aa44274c792']]
19 Ternary Node Indices      [[2, 3], [1, 9], [6, 0], [10]]
20 Ternary CLock      [[(0, 0, 1, 0, 0, 0, 0, 0, 1, 0, 0, 2), (0, 2, 0, 3, 0, 0, 0, 0, 1, 0, 0, 2)], [(0, 3, 0, 0, 2, 0, 0, 0, 1, 0, 0, 0), (0, 1, 0, 0, 2, 0, 0, 0, 1, 3, 0, 0)], [(0, 2, 0, 0, 0
, 0, 3, 2, 1, 0, 0, 0), (3, 1, 0, 0, 0, 0, 0, 2, 1, 0, 0, 0)], [(0, 0, 0, 0, 0, 2, 0, 0, 1, 0, 1, 0)]]
21
22
23 VECTOR TIMESTAMP ANNOUNCED - - [3, 3, 1, 3, 4, 2, 3, 4, 1, 3, 1, 6]
24
25
26 For transaction -      e4c2e8edac362acab7123654b9e73432
27 Primary Node      eaae467480520c30e3e47c073fdf5120
28 Primary Node Index      1
29 Primary Clock      (0, 1, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0)
30
31 Secondary Nodes      ['892b80343619b8428729fa018c1a12e6', '053c735f1695ffa2e932d0e24d96e685', '743ecf4691e3cc670949cb96779d65ac', '6d691284c263f459251e469e61239e59']
32 Secondary Node Indices      [9, 4, 0, 11]
33 Secondary Clock      [(0, 1, 0, 0, 0, 0, 0, 0, 2, 0, 0), (0, 1, 0, 0, 4, 0, 0, 0, 1, 0, 0, 0), (2, 1, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0), (0, 1, 0, 0, 0, 0, 0, 0, 1, 0, 0, 4)]
34
35 Ternary Nodes      [[ '9f195c101a3c7acf42d5e730570ade70', '7356bc7f44bac86bca587aa44274c792'], ['e5b1a0fafa6d61ec2c13821aad88d8de', '6b34f6524e20ae4138b7106afd68b786'], ['
e273fe47bf3984ac83e536042760b801', '65f5c57570c94ce851f77d296a410609'], ['6cc5e96c6dbacd8f05b24204ef2a2d8e']]
36 Ternary Node Indices      [[6, 10], [2, 8], [7, 3], [5]]
37 Ternary CLock      [[(0, 2, 0, 0, 0, 0, 4, 2, 1, 2, 0, 0), (0, 1, 0, 0, 0, 2, 0, 0, 1, 2, 2, 0)], [(0, 1, 2, 0, 4, 0, 0, 0, 1, 0, 0, 2), (0, 1, 0, 0, 4, 0, 0, 0, 2, 0, 0, 0)], [(2, 2, 0, 0, 0
, 0, 0, 5, 1, 0, 0, 0), (2, 2, 0, 4, 0, 0, 0, 0, 1, 0, 0, 2)], [(0, 1, 0, 0, 0, 3, 0, 0, 1, 0, 0, 4)]]
38
39
40 VECTOR TIMESTAMP ANNOUNCED - - [3, 3, 2, 4, 4, 3, 4, 5, 2, 3, 2, 6]
41
42
43 For transaction -      d1bd83a33f1a841ab7fda32449746cc4
44 Primary Node      eaae467480520c30e3e47c073fdf5120
45 Primary Node Index      1
46 Primary Clock      (0, 2, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0)
47
48 Secondary Nodes      ['9f195c101a3c7acf42d5e730570ade70', '65f5c57570c94ce851f77d296a410609', 'e273fe47bf3984ac83e536042760b801', '6d691284c263f459251e469e61239e59']
49 Secondary Node Indices      [6, 3, 7, 11]
50 Secondary Clock      [(0, 2, 0, 0, 0, 0, 2, 0, 0, 0, 0, 0), (0, 2, 0, 2, 0, 0, 0, 0, 0, 0, 0, 0), (0, 2, 0, 0, 0, 0, 0, 4, 1, 0, 0, 0), (0, 2, 0, 0, 0, 0, 0, 0, 1, 0, 0, 6)]
51
52 Ternary Nodes      [[ '7356bc7f44bac86bca587aa44274c792', '6cc5e96c6dbacd8f05b24204ef2a2d8e'], ['e5b1a0fafa6d61ec2c13821aad88d8de', '743ecf4691e3cc670949cb96779d65ac'], ['
892b80343619b8428729fa018c1a12e6', '6b34f6524e20ae4138b7106afd68b786'], ['053c735f1695ffa2e932d0e24d96e685']]
53 Ternary Node Indices      [[10, 5], [2, 0], [9, 8], [4]]
54 Ternary CLock      [[(0, 2, 0, 0, 0, 2, 2, 0, 1, 2, 3, 0), (0, 2, 0, 0, 0, 4, 2, 0, 1, 0, 0, 4)], [(0, 2, 3, 2, 4, 0, 0, 0, 1, 0, 0, 2), (4, 2, 0, 2, 0, 0, 0, 2, 1, 0, 0, 0)], [(0, 2, 0, 0, 2
, 0, 0, 4, 1, 4, 0, 0), (0, 2, 0, 0, 4, 0, 0, 4, 3, 0, 0, 0)], [(0, 2, 0, 0, 5, 0, 0, 0, 1, 0, 0, 6)]]
55
56
57 VECTOR TIMESTAMP ANNOUNCED - - [4, 3, 3, 4, 5, 4, 4, 5, 3, 4, 3, 6]
58
59
60 Num of transactions in cycle -- 2 are -- 2
61
62 For transaction -      e4c2e8edac362acab7123654b9e73432
63 Primary Node      eaae467480520c30e3e47c073fdf5120
64 Primary Node Index      1
65 Primary Clock      (0, 4, 0, 0, 2, 0, 0, 0, 1, 0, 0, 0)
66
67 Secondary Nodes      ['892b80343619b8428729fa018c1a12e6', '053c735f1695ffa2e932d0e24d96e685', '743ecf4691e3cc670949cb96779d65ac', '6d691284c263f459251e469e61239e59']
68 Secondary Node Indices      [9, 4, 0, 11]
69 Secondary Clock      [(0, 4, 0, 0, 2, 0, 0, 4, 1, 6, 0, 0), (0, 4, 0, 0, 7, 0, 0, 0, 1, 0, 0, 6), (6, 4, 0, 2, 2, 0, 0, 2, 1, 0, 0, 0), (0, 4, 0, 0, 2, 0, 0, 0, 1, 0, 0, 8)]
70
71 Ternary Nodes      [[ '9f195c101a3c7acf42d5e730570ade70', '7356bc7f44bac86bca587aa44274c792'], ['e5b1a0fafa6d61ec2c13821aad88d8de', '6b34f6524e20ae4138b7106afd68b786'], ['
e273fe47bf3984ac83e536042760b801', '65f5c57570c94ce851f77d296a410609'], ['6cc5e96c6dbacd8f05b24204ef2a2d8e']]
72 Ternary Node Indices      [[6, 10], [2, 8], [7, 3], [5]]
73 Ternary CLock      [[(0, 4, 0, 0, 2, 0, 5, 4, 1, 6, 0, 0), (2, 4, 0, 0, 2, 2, 2, 6, 1, 6, 6, 0)], [(0, 4, 4, 2, 7, 0, 0, 0, 1, 0, 0, 6), (2, 4, 0, 0, 7, 0, 0, 6, 6, 0, 0, 6)], [(6, 4, 0, 2, 2
, 0, 0, 7, 1, 0, 0, 0), (6, 4, 0, 7, 2, 0, 0, 6, 1, 0, 0, 2)], [(0, 4, 0, 0, 2, 5, 2, 0, 1, 0, 0, 8)]]
74
75
76 VECTOR TIMESTAMP ANNOUNCED - - [6, 4, 4, 7, 7, 5, 5, 7, 6, 6, 6, 10]
77
78
79 For transaction -      a078025f6de5a3c452a28bb2ce27f1b2
80 Primary Node      e273fe47bf3984ac83e536042760b801
81 Primary Node Index      7
82 Primary Clock      (2, 2, 0, 0, 0, 0, 0, 6, 1, 0, 0, 0)
83
84 Secondary Nodes      ['7356bc7f44bac86bca587aa44274c792', '65f5c57570c94ce851f77d296a410609', '6d691284c263f459251e469e61239e59', '6b34f6524e20ae4138b7106afd68b786']
85 Secondary Node Indices      [10, 3, 11, 8]
86 Secondary Clock      [(2, 2, 0, 0, 0, 2, 2, 6, 1, 2, 5, 0), (2, 2, 0, 6, 0, 0, 0, 6, 1, 0, 0, 2), (2, 4, 0, 0, 2, 0, 0, 6, 1, 0, 0, 10), (2, 2, 0, 0, 4, 0, 0, 6, 5, 0, 0, 0)]
87
88 Ternary Nodes      [[ 'eaae467480520c30e3e47c073fdf5120', '743ecf4691e3cc670949cb96779d65ac'], ['053c735f1695ffa2e932d0e24d96e685', 'e5b1a0fafa6d61ec2c13821aad88d8de'], ['
6cc5e96c6dbacd8f05b24204ef2a2d8e', '892b80343619b8428729fa018c1a12e6'], ['9f195c101a3c7acf42d5e730570ade70']]
89 Ternary Node Indices      [[1, 0], [4, 2], [5, 9], [6]]
90 Ternary CLock      [[(2, 5, 0, 0, 2, 2, 2, 6, 1, 2, 5, 0), (7, 4, 0, 2, 2, 2, 2, 6, 1, 2, 5, 0)], [(2, 4, 0, 6, 8, 0, 0, 6, 1, 0, 0, 6), (2, 4, 5, 6, 7, 0, 0, 6, 1, 0, 0, 6)], [(2, 4, 0, 0, 2
, 6, 2, 6, 1, 0, 0, 10), (2, 4, 0, 0, 2, 0, 0, 6, 1, 7, 0, 10)], [(2, 4, 0, 0, 4, 0, 6, 6, 5, 6, 0, 0)]]
91
92
93 VECTOR TIMESTAMP ANNOUNCED - - [7, 5, 5, 7, 8, 6, 6, 7, 6, 7, 6, 10]
94
95
96 Num of transactions in cycle -- 3 are -- 5
97
98 For transaction -      d1bd83a33f1a841ab7fda32449746cc4
99 Primary Node      eaae467480520c30e3e47c073fdf5120
100 Primary Node Index      1
101 Primary Clock      (2, 6, 0, 0, 2, 2, 2, 6, 1, 2, 5, 0)
102
103 Secondary Nodes      ['9f195c101a3c7acf42d5e730570ade70', '65f5c57570c94ce851f77d296a410609', 'e273fe47bf3984ac83e536042760b801', '6d691284c263f459251e469e61239e59']
104 Secondary Node Indices      [6, 3, 7, 11]
105 Secondary Clock      [(2, 6, 0, 0, 4, 2, 8, 6, 5, 6, 5, 0), (6, 6, 0, 11, 2, 2, 2, 6, 1, 2, 5, 2), (6, 6, 0, 2, 2, 2, 2, 9, 1, 2, 5, 0), (2, 6, 0, 0, 2, 2, 2, 6, 1, 2, 5, 12)]
106
107 Ternary Nodes      [[ '7356bc7f44bac86bca587aa44274c792', '6cc5e96c6dbacd8f05b24204ef2a2d8e'], ['e5b1a0fafa6d61ec2c13821aad88d8de', '743ecf4691e3cc670949cb96779d65ac'], ['
892b80343619b8428729fa018c1a12e6', '6b34f6524e20ae4138b7106afd68b786'], ['053c735f1695ffa2e932d0e24d96e685']]
108 Ternary Node Indices      [[10, 5], [2, 0], [9, 8], [4]]
109 Ternary CLock      [[(2, 6, 0, 0, 4, 2, 8, 6, 5, 6, 7, 0), (6, 6, 6, 9, 11, 8, 6, 5, 6, 5, 10)], [(6, 6, 9, 11, 7, 2, 2, 6, 1, 2, 5, 6), (14, 6, 6, 11, 7, 2, 2, 6, 7, 2, 5, 6)], [(6, 6, 0,
9, 2, 2, 2, 9, 1, 10, 5, 10), (6, 6, 6, 6, 7, 2, 2, 9, 10, 2, 5, 6)], [(6, 6, 6, 9, 17, 2, 2, 6, 7, 2, 5, 12)]]
110
111
112 VECTOR TIMESTAMP ANNOUNCED - - [14, 8, 9, 11, 17, 11, 10, 13, 10, 10, 7, 12]
113
114
```

115 For transaction - 52cc145eca8e0731558021a7f0520c6f  
116 Primary Node e5b1a0fafa6d61ec2c13821aad88d8de  
117 Primary Node Index 2  
118 Primary Clock (2, 4, 6, 6, 7, 0, 0, 6, 1, 0, 0, 6)  
119  
120 Secondary Nodes ['6b34f6524e20ae4138b7106afd68b786', '743ecf4691e3cc670949cb96779d65ac', '6cc5e96c6dbacd8f05b24204ef2a2d8e', '053c735f1695ffa2e932d0e24d96e685']  
121 Secondary Node Indices [8, 0, 5, 4]  
122 Secondary Clock [(2, 4, 6, 6, 7, 0, 0, 6, 9, 0, 0, 6), (9, 4, 6, 6, 7, 2, 2, 6, 1, 2, 5, 6), (2, 4, 6, 6, 7, 8, 2, 6, 1, 0, 0, 10), (2, 4, 6, 6, 10, 0, 0, 6, 1, 0, 0, 6)]  
123  
124 Ternary Nodes [['9f195c101a3c7acf42d5e730570ade70', '6d691284c263f459251e469e61239e59'], ['7356bc7f44bac86bca587aa44274c792', 'e273fe47bf3984ac83e536042760b801'], ['eaaee467480520c30e3e47c073fdf5120', '65f5c57570c94ce851f77d296a410609'], ['892b80343619b8428729fa018c1a12e6']]  
125 Ternary Node Indices [[6, 11], [10, 7], [1, 3], [9]]  
126 Ternary CLock [[(2, 6, 6, 6, 7, 2, 11, 6, 9, 6, 5, 6), (2, 6, 6, 6, 7, 2, 2, 6, 9, 2, 5, 13)], [(9, 6, 6, 6, 7, 2, 8, 6, 5, 6, 8, 6), (9, 6, 6, 8, 7, 2, 2, 14, 7, 2, 5, 6)], [(6, 9, 6, 9, 7, 8, 2, 6, 1, 2, 5, 10), (6, 6, 6, 12, 7, 8, 2, 6, 1, 2, 5, 10)], [(6, 6, 6, 9, 10, 2, 2, 9, 1, 11, 5, 10)]]  
127  
128  
129 VECTOR TIMESTAMP ANNOUNCED - - [14, 9, 9, 12, 17, 11, 11, 14, 10, 11, 8, 13]  
130  
131  
132 For transaction - 2ab4b47d9ade82df4a2a7bdd9c20fec0  
133 Primary Node 65f5c57570c94ce851f77d296a410609  
134 Primary Node Index 3  
135 Primary Clock (6, 4, 0, 8, 2, 0, 0, 6, 1, 0, 0, 2)  
136  
137 Secondary Nodes ['e5b1a0fafa6d61ec2c13821aad88d8de', 'e273fe47bf3984ac83e536042760b801', '743ecf4691e3cc670949cb96779d65ac', '053c735f1695ffa2e932d0e24d96e685']  
138 Secondary Node Indices [2, 7, 0, 4]  
139 Secondary Clock [(6, 4, 8, 8, 7, 0, 0, 6, 1, 0, 0, 6), (6, 6, 0, 8, 2, 2, 2, 11, 1, 2, 5, 2), (11, 4, 6, 8, 7, 2, 2, 6, 1, 2, 5, 6), (6, 4, 6, 8, 12, 0, 0, 6, 1, 0, 0, 6)]  
140  
141 Ternary Nodes [['eaaee467480520c30e3e47c073fdf5120', '892b80343619b8428729fa018c1a12e6'], ['6cc5e96c6dbacd8f05b24204ef2a2d8e', '7356bc7f44bac86bca587aa44274c792'], ['6b34f6524e20ae4138b7106afd68b786', '6d691284c263f459251e469e61239e59'], ['9f195c101a3c7acf42d5e730570ade70']]  
142 Ternary Node Indices [[1, 9], [5, 10], [8, 11], [6]]  
143 Ternary CLock [[(6, 10, 8, 9, 7, 8, 2, 6, 1, 2, 5, 10), (6, 6, 8, 9, 10, 2, 2, 9, 1, 12, 5, 10)], [(6, 6, 6, 9, 7, 12, 8, 11, 5, 6, 5, 10), (9, 6, 6, 8, 7, 2, 8, 11, 5, 6, 9, 6)], [(11, 6, 6, 8, 7, 2, 2, 9, 11, 2, 5, 6), (11, 6, 6, 8, 7, 2, 2, 6, 9, 2, 5, 14)], [(6, 6, 6, 8, 12, 2, 12, 6, 9, 6, 5, 6)]]  
144  
145  
146 VECTOR TIMESTAMP ANNOUNCED - - [14, 10, 9, 12, 17, 12, 12, 14, 11, 12, 9, 14]  
147  
148  
149 For transaction - 20598d3353f50b2f83fcec2b35774479  
150 Primary Node 6b34f6524e20ae4138b7106afd68b786  
151 Primary Node Index 8  
152 Primary Clock (2, 4, 0, 0, 7, 0, 0, 6, 7, 0, 0, 6)  
153  
154 Secondary Nodes ['e273fe47bf3984ac83e536042760b801', '743ecf4691e3cc670949cb96779d65ac', '053c735f1695ffa2e932d0e24d96e685', '9f195c101a3c7acf42d5e730570ade70']  
155 Secondary Node Indices [7, 0, 4, 6]  
156 Secondary Clock [(6, 6, 0, 8, 7, 2, 2, 13, 7, 2, 5, 6), (13, 4, 6, 8, 7, 2, 2, 6, 7, 2, 5, 6), (6, 4, 6, 8, 14, 0, 0, 6, 7, 0, 0, 6), (2, 6, 0, 0, 7, 2, 10, 6, 7, 6, 5, 6)]  
157  
158 Ternary Nodes [['892b80343619b8428729fa018c1a12e6', 'e5b1a0fafa6d61ec2c13821aad88d8de'], ['eaaee467480520c30e3e47c073fdf5120', '6cc5e96c6dbacd8f05b24204ef2a2d8e'], ['7356bc7f44bac86bca587aa44274c792', '65f5c57570c94ce851f77d296a410609'], ['6d691284c263f459251e469e61239e59']]  
159 Ternary Node Indices [[9, 2], [1, 5], [10, 3], [11]]  
160 Ternary CLock [[(6, 6, 8, 9, 10, 2, 2, 13, 7, 13, 5, 10), (6, 6, 10, 11, 7, 2, 2, 13, 7, 2, 5, 6)], [(13, 11, 8, 9, 7, 8, 2, 6, 7, 2, 5, 10), (13, 6, 6, 9, 7, 13, 8, 11, 7, 6, 5, 10)], [(9, 6, 6, 8, 14, 2, 8, 11, 7, 6, 10, 6), (6, 6, 6, 13, 14, 8, 2, 6, 7, 2, 5, 10)], [(11, 6, 6, 8, 7, 2, 10, 6, 9, 6, 5, 15)]]  
161  
162  
163 VECTOR TIMESTAMP ANNOUNCED - - [14, 11, 10, 13, 17, 13, 12, 14, 11, 13, 10, 15]  
164  
165  
166 For transaction - 049f690389481af348426a31e5948482  
167 Primary Node 65f5c57570c94ce851f77d296a410609  
168 Primary Node Index 3  
169 Primary Clock (6, 4, 0, 9, 2, 0, 0, 6, 1, 0, 0, 2)  
170  
171 Secondary Nodes ['053c735f1695ffa2e932d0e24d96e685', '6cc5e96c6dbacd8f05b24204ef2a2d8e', '892b80343619b8428729fa018c1a12e6', 'eaaee467480520c30e3e47c073fdf5120']  
172 Secondary Node Indices [4, 5, 9, 1]  
173 Secondary Clock [(6, 4, 6, 9, 16, 0, 0, 6, 7, 0, 0, 6), (6, 4, 6, 9, 7, 10, 2, 6, 1, 0, 0, 10), (6, 4, 0, 9, 2, 0, 0, 6, 1, 9, 0, 10), (6, 8, 0, 9, 2, 2, 2, 6, 1, 2, 5, 2)]  
174  
175 Ternary Nodes [['7356bc7f44bac86bca587aa44274c792', '6b34f6524e20ae4138b7106afd68b786'], ['743ecf4691e3cc670949cb96779d65ac', '6d691284c263f459251e469e61239e59'], ['e273fe47bf3984ac83e536042760b801', 'e5b1a0fafa6d61ec2c13821aad88d8de'], ['9f195c101a3c7acf42d5e730570ade70']]  
176 Ternary Node Indices [[10, 8], [0, 11], [7, 2], [6]]  
177 Ternary CLock [[(9, 6, 6, 9, 16, 2, 8, 11, 7, 6, 11, 6), (11, 6, 6, 9, 16, 2, 2, 9, 12, 2, 5, 6)], [(15, 6, 6, 11, 7, 10, 2, 6, 7, 2, 5, 10), (11, 6, 6, 9, 7, 10, 10, 6, 9, 6, 5, 16)], [(9, 6, 6, 9, 7, 2, 2, 15, 7, 9, 5, 10), (6, 6, 11, 11, 7, 2, 2, 13, 7, 9, 5, 10)], [(6, 8, 6, 9, 12, 2, 13, 6, 9, 6, 5, 6)]]  
178  
179  
180 VECTOR TIMESTAMP ANNOUNCED - - [15, 11, 11, 13, 17, 13, 13, 15, 12, 13, 11, 16]  
181  
182  
183 PublicKey: 743ecf4691e3cc670949cb96779d65ac Node ConnLatency: 72.49285403596024 Bad Actor: False [15, 6, 6, 11, 7, 10, 2, 6, 7, 2, 5, 10]  
184 PublicKey: eaaee467480520c30e3e47c073fdf5120 Node ConnLatency: 77.53184064697862 Bad Actor: False [13, 11, 8, 9, 7, 8, 2, 6, 7, 2, 5, 10]  
185 PublicKey: e5b1a0fafa6d61ec2c13821aad88d8de Node ConnLatency: 118.68517150726738 Bad Actor: False [6, 6, 11, 11, 7, 2, 2, 13, 7, 9, 5, 10]  
186 PublicKey: 65f5c57570c94ce851f77d296a410609 Node ConnLatency: 130.6579864888095 Bad Actor: False [6, 6, 6, 13, 14, 8, 2, 6, 7, 2, 5, 10]  
187 PublicKey: 053c735f1695ffa2e932d0e24d96e685 Node ConnLatency: 129.29245563818827 Bad Actor: True [6, 6, 6, 9, 17, 2, 2, 6, 7, 2, 5, 12]  
188 PublicKey: 6cc5e96c6dbacd8f05b24204ef2a2d8e Node ConnLatency: 111.71079421576299 Bad Actor: False [13, 6, 6, 9, 7, 13, 8, 11, 7, 6, 5, 10]  
189 PublicKey: 9f195c101a3c7acf42d5e730570ade70 Node ConnLatency: 58.3109195665338 Bad Actor: False [6, 8, 6, 9, 12, 2, 13, 6, 9, 6, 5, 6]  
190 PublicKey: e273fe47bf3984ac83e536042760b801 Node ConnLatency: 73.10297538868461 Bad Actor: True [9, 6, 6, 9, 7, 2, 2, 15, 7, 9, 5, 10]  
191 PublicKey: 6b34f6524e20ae4138b7106afd68b786 Node ConnLatency: 105.63149834070192 Bad Actor: False [11, 6, 6, 9, 7, 16, 2, 2, 9, 12, 2, 5, 6]  
192 PublicKey: 892b80343619b8428729fa018c1a12e6 Node ConnLatency: 127.54589748001614 Bad Actor: True [6, 6, 8, 9, 10, 2, 2, 13, 7, 13, 5, 10]  
193 PublicKey: 7356bc7f44bac86bca587aa44274c792 Node ConnLatency: 120.93620314430977 Bad Actor: False [9, 6, 6, 9, 16, 2, 8, 11, 7, 6, 11, 6]  
194 PublicKey: 6d691284c263f459251e469e61239e59 Node ConnLatency: 130.3527532295995 Bad Actor: False [11, 6, 6, 9, 7, 10, 10, 6, 9, 6, 5, 16]  
195  
196 Process finished with exit code 0  
197