```
 1 C:\Users\palas\Dropbox\Entanglement-witnessing-with-
   gilbert\Gilbert-opt-py\venv\Scripts\python.exe C:\
   Users\palas\Dropbox\Entanglement-witnessing-with-
   gilbert\Gilbert-opt-py\main.py
 2 [[0.         0.         0.         0.         0
   .         0.
 3  0.         0.        ]
 4  [0.         0.33333333 0.33333333 0.         0.
   33333333 0.
 5  0.         0.        ]
 6  [0.         0.33333333 0.33333333 0.         0.
   33333333 0.
 7  0.         0.        ]
 8  [0.         0.         0.         0.         0
   .         0.
 9  0.         0.        ]
10  [0.         0.33333333 0.33333333 0.         0.
   33333333 0.
11  0.         0.        ]
12  [0.         0.         0.         0.         0
   .         0.
13  0.         0.        ]
14  [0.         0.         0.         0.         0
   .         0.
15  0.         0.        ]
16  [0.         0.         0.         0.         0
   .         0.
17  0.         0.        ]]
18 1 0.6666666666666666
19 2 0.5820109120380951
20 3 0.5081808204274088
21 4 0.4670637066341168
22 5 0.4440621940922898
23 6 0.4410500551215517
24 7 0.4374995929513123
25 8 0.4359038002072623
26 9 0.4348232778665746
27 10 0.4341509734076224
28 [[ 1.98091949e-01+2.57558622e-18j  7.99344172e-04+6.
   99014821e-05j
29    2.36812289e-03-3.82959726e-03j  1.66361987e-03-5.
```

```
29 89125238e-04j
30    3.82607682e-03-1.21973688e-03j  7.44767069e-03-6.
   80087050e-05j
31    1.86062650e-03+3.09021213e-04j  3.37553278e-03+7.
   90969631e-03j]
32 [ 7.99344172e-04-6.99014821e-05j  1.97948620e-01-5.
   76041941e-18j
33    1.08236704e-01+8.30417333e-04j  5.13089287e-06-1.
   51910640e-03j
34    1.07071795e-01+5.32615520e-04j  7.96659697e-04-8.
   14763122e-04j
35    1.72550263e-03-2.19597020e-03j  2.54423476e-04-7.
   80648491e-04j]
36 [ 2.36812289e-03+3.82959726e-03j  1.08236704e-01-8.
   30417333e-04j
37    2.00794215e-01-3.72576279e-19j  8.87999344e-04-4.
   35119963e-03j
38    1.06541964e-01-2.35806891e-04j  1.60657187e-03-1.
   75905471e-03j
39    2.64829007e-03-4.94725688e-03j -3.44881232e-03-1.
   19139513e-04j]
40 [ 1.66361987e-03+5.89125238e-04j  5.13089287e-06+1.
   51910640e-03j
41    8.87999344e-04+4.35119963e-03j  6.00470598e-02-1.
   12390473e-18j
42    3.62987305e-04+2.00161754e-03j  5.81291406e-02-1.
   06264408e-04j
43    5.89838391e-02+3.03663587e-04j  7.30893917e-04-2.
   16876415e-03j]
44 [ 3.82607682e-03+1.21973688e-03j  1.07071795e-01-5.
   32615520e-04j
45    1.06541964e-01+2.35806891e-04j  3.62987305e-04-2.
   00161754e-03j
46    1.94964712e-01+5.81702238e-18j  1.27829018e-03-1.
   15724298e-03j
47    2.09757287e-03-2.59763638e-03j  1.46823276e-03-8.
   34327200e-04j]
48 [ 7.44767069e-03+6.80087050e-05j  7.96659697e-04+8.
   14763122e-04j
49    1.60657187e-03+1.75905471e-03j  5.81291406e-02+1.
   06264408e-04j
```

```
50     1.27829018e-03+1.15724298e-03j  5.85660156e-02-2.
   23806153e-18j
51     5.72741235e-02+3.64754304e-04j  4.07564518e-04-1.
   25861736e-03j]
52  [ 1.86062650e-03-3.09021213e-04j  1.72550263e-03+2.
   19597020e-03j
53     2.64829007e-03+4.94725688e-03j  5.89838391e-02-3.
   03663587e-04j
54     2.09757287e-03+2.59763638e-03j  5.72741235e-02-3.
   64754304e-04j
55     5.80969921e-02+5.27425658e-19j  8.48629120e-04-2.
   41531875e-03j]
56  [ 3.37553278e-03-7.90969631e-03j  2.54423476e-04+7.
   80648491e-04j
57    -3.44881232e-03+1.19139513e-04j  7.30893917e-04+2.
   16876415e-03j
58     1.46823276e-03+8.34327200e-04j  4.07564518e-04+1.
   25861736e-03j
59     8.48629120e-04+2.41531875e-03j  3.14904360e-02+1.
   24178110e-18j]] 0.4331353812902746 4964
60
61 Process finished with exit code 0
62
```