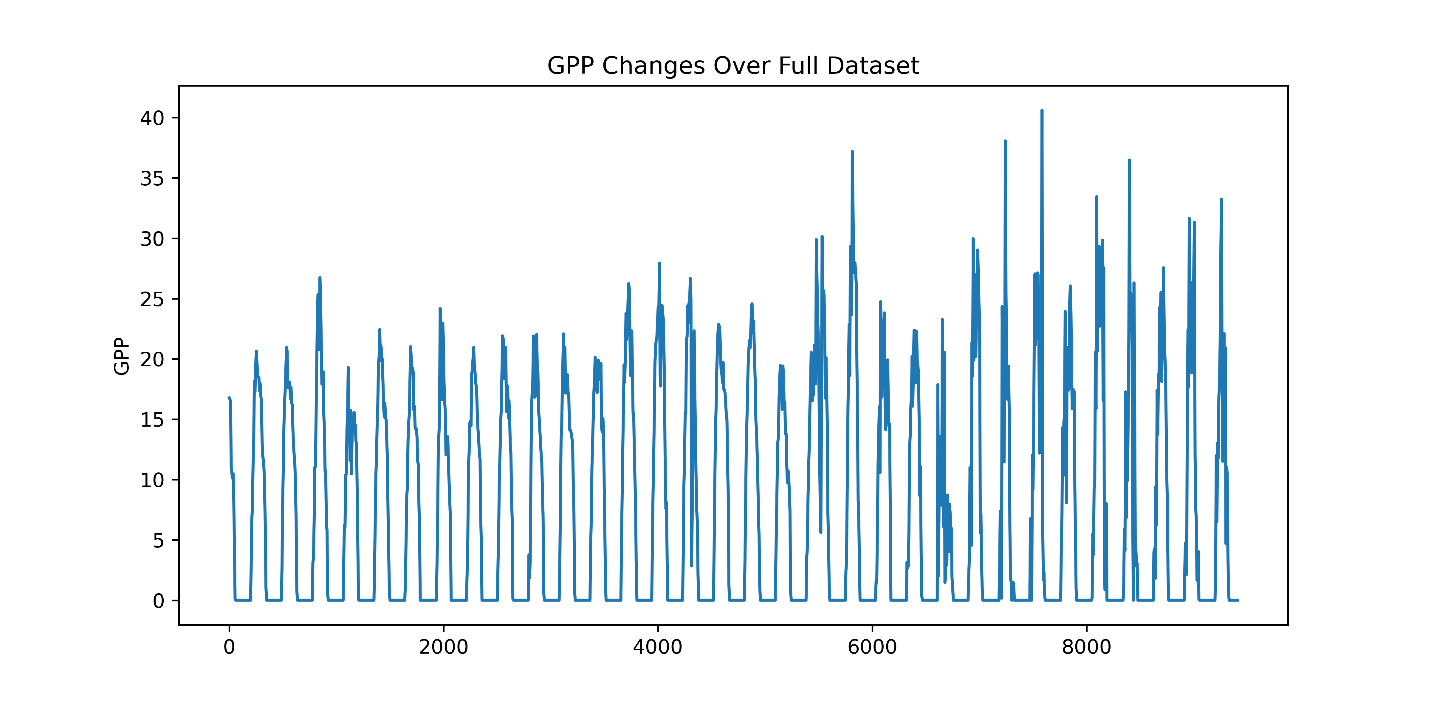
asdas



Starts 2015\_03\_14\_13\_30\_bci\_t.csv  
Ends 2015\_09\_30\_23\_30\_bci\_t.csv  
x-axis represents # of 5 min increments

Ends

# Full Data

55,000 files, batch size 3, learning rate constant 0.001 20 epochs

Epoch #: 1

Epoch: 1 Training Loss: 34.324618 Validation Loss: 39.507075

Time: 1403.5638682842255

Current Time = 02:28:50

LR: 0.001

Epoch #: 2

Epoch: 2 Training Loss: 31.415768 Validation Loss: 23.960221

Validation loss decreased (32.039487 --> 23.960221). Saving model ...

Time: 1342.299519777298

Current Time = 02:51:12

LR: 0.001

Epoch #: 3

Epoch: 3 Training Loss: 29.139600 Validation Loss: 21.381789

Validation loss decreased (23.960221 --> 21.381789). Saving model ...

Time: 1319.9453134536743

Current Time = 03:13:12

LR: 0.001

Epoch #: 4

Epoch: 4 Training Loss: 27.517220 Validation Loss: 20.090468

Validation loss decreased (21.381789 --> 20.090468). Saving model ...

Time: 1318.7205877304077

Current Time = 03:35:11

LR: 0.001

Epoch #: 5

Epoch: 5 Training Loss: 26.259371 Validation Loss: 19.713259

Validation loss decreased (20.090468 --> 19.713259). Saving model ...

Time: 1318.9050962924957

Current Time = 03:57:10

LR: 0.001

Epoch #: 6

Epoch: 6 Training Loss: 25.733019 Validation Loss: 19.505098

Validation loss decreased (19.713259 --> 19.505098). Saving model ...

Time: 1318.6138756275177

Current Time = 04:19:09

LR: 0.001

Epoch #: 7

Epoch: 7 Training Loss: 25.004339 Validation Loss: 33.001331

Time: 1319.5703160762787

Current Time = 04:41:08

LR: 0.001

Epoch #: 8

Epoch: 8 Training Loss: 24.276395 Validation Loss: 17.662554

Validation loss decreased (19.505098 --> 17.662554). Saving model ...

Time: 1319.1654002666473

Current Time = 05:03:07

LR: 0.001

Epoch #: 9

Epoch: 9 Training Loss: 23.723310 Validation Loss: 24.978763

Time: 1318.7694580554962

Current Time = 05:25:06

LR: 0.001

Epoch #: 10

Epoch: 10 Training Loss: 23.127442 Validation Loss: 23.952492

Time: 1319.1753721237183

Current Time = 05:47:05

LR: 0.001

Epoch #: 11

Epoch: 11 Training Loss: 22.626641 Validation Loss: 17.648369

Validation loss decreased (17.662554 --> 17.648369). Saving model ...

Time: 1319.6421241760254

Current Time = 06:09:05

LR: 0.001

Epoch #: 12

Epoch: 12 Training Loss: 22.279145 Validation Loss: 18.662943

Time: 1319.4177238941193

Current Time = 06:31:05

LR: 0.001

Epoch #: 13

Epoch: 13 Training Loss: 21.729727 Validation Loss: 16.590558

Validation loss decreased (17.648369 --> 16.590558). Saving model ...

Time: 1319.5653295516968

Current Time = 06:53:04

LR: 0.001

Epoch #: 14

Epoch: 14 Training Loss: 21.086775 Validation Loss: 18.073613

Time: 1319.5094792842865

Current Time = 07:15:04

LR: 0.001

Epoch #: 15

Epoch: 15 Training Loss: 20.871230 Validation Loss: 18.143685

Time: 1325.3358945846558

Current Time = 07:37:09

LR: 0.001

Epoch #: 16

Epoch: 16 Training Loss: 21.111609 Validation Loss: 19.324733

Time: 1319.0985774993896

Current Time = 07:59:08

LR: 0.001

Epoch #: 17

Epoch: 17 Training Loss: 20.625919 Validation Loss: 15.596218

Validation loss decreased (16.590558 --> 15.596218). Saving model ...

Time: 1318.4652721881866

Current Time = 08:21:07

LR: 0.001

Epoch #: 18

Epoch: 18 Training Loss: 20.225779 Validation Loss: 16.452832

Time: 1320.1766941547394

Current Time = 08:43:07

LR: 0.001

Epoch #: 19

Epoch: 19 Training Loss: 19.891254 Validation Loss: 15.291097

Validation loss decreased (15.596218 --> 15.291097). Saving model ...

Time: 1318.6228518486023

Current Time = 09:05:05

LR: 0.001

Epoch #: 20

Epoch: 20 Training Loss: 20.136638 Validation Loss: 18.624851

Time: 1319.7388648986816

Current Time = 09:27:05

LR: 0.001

Operation Complete

[34.32461826009945, 31.41576783913345, 29.13960019041623, 27.517219943756707, 26.259371256239184, 25.733019366484246, 25.004338758036038, 24.276395390280637, 23.723310259319625, 23.127442072899846, 22.62664051455718, 22.279144990379137, 21.729727352088997, 21.086775055418588, 20.87123020494531, 21.11160897763315, 20.62591898980779, 20.225779190413864, 19.89125446985723, 20.13663759028082]

[39.507074656201816, 23.960221475929814, 21.381789258345925, 20.09046835991505, 19.71325910852074, 19.505098060381602, 33.00133143789836, 17.662554104451974, 24.97876270263207, 23.952492399846516, 17.648368814419634, 18.662943093867, 16.590557911710466, 18.07361334346952, 18.143685462811295, 19.32473326065288, 15.596218202608405, 16.45283229121809, 15.291097105261672, 18.624851254625728]

[1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20]

[0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001]

Same model as above all the same except batch size 3->18

Epoch #: 1

Epoch: 1 Training Loss: 17.239738 Validation Loss: 13.751256

Validation loss decreased (15.291097 --> 13.751256). Saving model ...

Time: 1347.8238453865051

Current Time = 11:48:12

LR: 0.001

Epoch #: 2

Epoch: 2 Training Loss: 17.003789 Validation Loss: 14.033083

Time: 1354.6606905460358

Current Time = 12:10:47

LR: 0.001

Epoch #: 3

Epoch: 3 Training Loss: 16.967486 Validation Loss: 13.907767

Time: 1377.1082932949066

Current Time = 12:33:44

LR: 0.001

Epoch #: 4

Epoch: 4 Training Loss: 16.792824 Validation Loss: 13.092755

Validation loss decreased (13.751256 --> 13.092755). Saving model ...

Time: 1421.0786807537079

Current Time = 12:57:25

LR: 0.001

Epoch #: 5

Epoch: 5 Training Loss: 16.759338 Validation Loss: 13.276482

Time: 1374.2756745815277

Current Time = 13:20:19

LR: 0.001

Epoch #: 6

Epoch: 6 Training Loss: 16.421970 Validation Loss: 13.295156

Time: 1444.2689583301544

Current Time = 13:44:23

LR: 0.001

Epoch #: 7

Epoch: 7 Training Loss: 16.371385 Validation Loss: 13.416979

Time: 1369.8217148780823

Current Time = 14:07:13

LR: 0.001

Epoch #: 8

Epoch: 8 Training Loss: 16.336214 Validation Loss: 13.494827

Time: 1362.468667268753

Current Time = 14:29:56

LR: 0.001

Epoch #: 9

Epoch: 9 Training Loss: 16.075171 Validation Loss: 12.599507

Validation loss decreased (13.092755 --> 12.599507). Saving model ...

Time: 1355.9081292152405

Current Time = 14:52:32

LR: 0.001

Epoch #: 10

Epoch: 10 Training Loss: 15.854454 Validation Loss: 13.372744

Time: 1344.1709830760956

Current Time = 15:14:56

LR: 0.001

Operation Complete

[17.239737897484677, 17.00378881626888, 16.967485689588578, 16.792824383068503, 16.75933763227756, 16.421969576912545, 16.371385454893556, 16.336213724177536, 16.075170558216662, 15.8544542104807]

[13.751256108839232, 14.033082702185423, 13.907767405107958, 13.09275467849966, 13.276482231904586, 13.295156230580046, 13.416979456702999, 13.494827331250692, 12.599506882439673, 13.37274412682404]

[1, 2, 3, 4, 5, 6, 7, 8, 9, 10]

[0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001]

Same as above except batch size 18 -> 60

Epoch #: 1

Epoch: 1 Training Loss: 14.977797 Validation Loss: 12.516110

Validation loss decreased (12.599507 --> 12.516110). Saving model ...

Time: 1532.6102085113525

Current Time = 15:48:05

LR: 0.001

Epoch #: 2

Epoch: 2 Training Loss: 14.747525 Validation Loss: 12.574423

Time: 1554.1047720909119

Current Time = 16:13:59

LR: 0.001

Epoch #: 3

Epoch: 3 Training Loss: 14.551092 Validation Loss: 12.695847

Time: 1448.622793674469

Current Time = 16:38:07

LR: 0.001

Epoch #: 4

Epoch: 4 Training Loss: 14.708999 Validation Loss: 12.271576

Validation loss decreased (12.516110 --> 12.271576). Saving model ...

Time: 1421.821965932846

Current Time = 17:01:49

LR: 0.001

Epoch #: 5

Epoch: 5 Training Loss: 14.545993 Validation Loss: 12.260173

Validation loss decreased (12.271576 --> 12.260173). Saving model ...

Time: 1411.7952437400818

Current Time = 17:25:21

LR: 0.001

Epoch #: 6

Epoch: 6 Training Loss: 14.781693 Validation Loss: 13.047269

Time: 1406.1770493984222

Current Time = 17:48:47

LR: 0.001

Epoch #: 7

Epoch: 7 Training Loss: 14.726112 Validation Loss: 12.353466

Time: 1453.373333454132

Current Time = 18:13:01

LR: 0.001

Epoch #: 8

ENDED EARLY WAS MEANT TO DO 10 BATCHES

Same as above but LR = 0.005

Epoch #: 1

Epoch: 1 Training Loss: 19.490664 Validation Loss: 14.676713

Time: 1393.8457343578339

Current Time = 18:47:31

LR: 0.005

Epoch #: 2

Epoch: 2 Training Loss: 18.919526 Validation Loss: 16.677812

Time: 1398.8550724983215

Current Time = 19:10:50

LR: 0.005

Epoch #: 3

Epoch: 3 Training Loss: 18.659229 Validation Loss: 17.584453

Time: 1399.0216524600983

Current Time = 19:34:09

LR: 0.005

Epoch #: 4

Epoch: 4 Training Loss: 18.589761 Validation Loss: 14.912236

Time: 1427.3728308677673

Current Time = 19:57:56

LR: 0.005

Epoch #: 5

Epoch: 5 Training Loss: 17.809573 Validation Loss: 16.115505

Time: 1396.1652522087097

Current Time = 20:21:13

LR: 0.005

Epoch #: 6

Epoch: 6 Training Loss: 18.333303 Validation Loss: 14.237518

Time: 1394.8166241645813

Current Time = 20:44:27

LR: 0.005

Epoch #: 7

Epoch: 7 Training Loss: 18.183358 Validation Loss: 14.756473

Time: 1391.1941990852356

Current Time = 21:07:39

LR: 0.005

Operation Complete

[19.490664204797245, 18.919525860724754, 18.659229367471674, 18.5897611649645, 17.809573490758638, 18.33330337602089, 18.18335836219889]

[14.676712836561839, 16.677812451032576, 17.584453267389307, 14.912236097750688, 16.11550502439516, 14.237517799507145, 14.756473334267575]

[1, 2, 3, 4, 5, 6, 7]

[0.005, 0.005, 0.005, 0.005, 0.005, 0.005, 0.005]

Same as before but lr= 0.01

Epoch #: 1

Epoch: 1 Training Loss: 31.331259 Validation Loss: 24.789423

Time: 1440.0707960128784

Current Time = 21:43:36

LR: 0.01

Epoch #: 2

Epoch: 2 Training Loss: 26.532194 Validation Loss: 20.830807

Time: 1411.5153789520264

Current Time = 22:07:08

LR: 0.01

Epoch #: 3

Epoch: 3 Training Loss: 27.865474 Validation Loss: 21.936664

Time: 1414.8224449157715

Current Time = 22:30:43

LR: 0.01

Epoch #: 4

Epoch: 4 Training Loss: 26.010130 Validation Loss: 24.179986

Time: 1618.6072707176208

Current Time = 22:57:41

LR: 0.01

Epoch #: 5

Epoch: 5 Training Loss: 24.429954 Validation Loss: 21.051335

Time: 1580.7671661376953

Current Time = 23:24:02

LR: 0.01

Epoch #: 6

Epoch: 6 Training Loss: 27.656686 Validation Loss: 25.261796

Time: 1613.3901255130768

Current Time = 23:50:56

LR: 0.01

Epoch #: 7

Epoch: 7 Training Loss: 24.358075 Validation Loss: 19.707448

Time: 1626.9661066532135

Current Time = 00:18:03

LR: 0.01

Operation Complete

[31.331259464500494, 26.532193639540502, 27.86547354817993, 26.010130427890804, 24.42995428004606, 27.656686249393587, 24.358074894286485]

[24.78942266463345, 20.830806907188297, 21.936663726234524, 24.179985564311384, 21.05133541339933, 25.26179615086492, 19.707448347257802]

[1, 2, 3, 4, 5, 6, 7]

[0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01]

SHIFT AROUND LR

Epoch #: 1

Epoch: 1 Training Loss: 155.075607 Validation Loss: 112.614961

Time: 1441.7608406543732

Current Time = 01:15:19

LR: 0.05

Epoch #: 2

Epoch: 2 Training Loss: 116.798490 Validation Loss: 112.655074

Time: 1354.0918681621552

Current Time = 01:37:53

LR: 0.05

Epoch #: 3

Epoch: 3 Training Loss: 116.785722 Validation Loss: 112.519679

Time: 1356.5643103122711

Current Time = 02:00:30

LR: 0.05

Epoch #: 4

Epoch: 4 Training Loss: 116.814217 Validation Loss: 112.618267

Time: 1356.2591388225555

Current Time = 02:23:06

LR: 0.05

Epoch #: 5

Epoch: 5 Training Loss: 116.794784 Validation Loss: 112.790421

Time: 1354.7242503166199

Current Time = 02:45:41

LR: 0.05

Epoch #: 6

Epoch: 6 Training Loss: 116.808858 Validation Loss: 112.605196

Time: 1354.5657892227173

Current Time = 03:08:15

LR: 0.05

Epoch #: 7

Epoch: 7 Training Loss: 116.775472 Validation Loss: 112.644982

Time: 1353.20924782753

Current Time = 03:30:48

LR: 0.01

Epoch #: 8

Epoch: 8 Training Loss: 116.769108 Validation Loss: 112.561003

Time: 1352.069590330124

Current Time = 03:53:21

LR: 0.01

Epoch #: 9

Epoch: 9 Training Loss: 116.776836 Validation Loss: 112.560837

Time: 1351.34202170372

Current Time = 04:15:52

LR: 0.01

Epoch #: 10

Epoch: 10 Training Loss: 116.778264 Validation Loss: 112.596697

Time: 1352.9926233291626

Current Time = 04:38:25

LR: 0.01

Epoch #: 11

Epoch: 11 Training Loss: 116.780842 Validation Loss: 112.599929

Time: 1353.0015902519226

Current Time = 05:00:58

LR: 0.01

Epoch #: 12

Epoch: 12 Training Loss: 116.774020 Validation Loss: 112.574196

Time: 1355.111060142517

Current Time = 05:23:33

LR: 0.01

Epoch #: 13

Epoch: 13 Training Loss: 116.776390 Validation Loss: 112.612581

Time: 1349.7243115901947

Current Time = 05:46:03

LR: 0.005

Epoch #: 14

Epoch: 14 Training Loss: 116.773996 Validation Loss: 112.601993

Time: 1348.3041279315948

Current Time = 06:08:31

LR: 0.005

Epoch #: 15

Epoch: 15 Training Loss: 116.774951 Validation Loss: 112.620312

Time: 1346.9698877334595

Current Time = 06:30:58

LR: 0.005

Epoch #: 16

Epoch: 16 Training Loss: 116.775569 Validation Loss: 112.614846

Time: 1346.9113981723785

Current Time = 06:53:25

LR: 0.005

Epoch #: 17

Epoch: 17 Training Loss: 116.772683 Validation Loss: 112.627898

Time: 1352.329754114151

Current Time = 07:15:57

LR: 0.005

Epoch #: 18

Epoch: 18 Training Loss: 116.771050 Validation Loss: 112.623753

Time: 1343.5757224559784

Current Time = 07:38:21

LR: 0.001

Epoch #: 19

Epoch: 19 Training Loss: 116.770418 Validation Loss: 112.621351

Time: 1347.0099713802338

Current Time = 08:00:48

LR: 0.001

Epoch #: 20

Epoch: 20 Training Loss: 116.770475 Validation Loss: 112.619755

Time: 1347.637589931488

Current Time = 08:23:15

LR: 0.001

Epoch #: 21

Epoch: 21 Training Loss: 116.770382 Validation Loss: 112.616610

Time: 1345.25058054924

Current Time = 08:45:41

LR: 0.001

Epoch #: 22

Epoch: 22 Training Loss: 116.770747 Validation Loss: 112.615926

Time: 1348.2917392253876

Current Time = 09:08:09

LR: 0.001

Operation Complete

[155.07560673095077, 116.7984900821039, 116.78572235127729, 116.81421685745528, 116.79478367878333, 116.80885820081649, 116.77547176829164, 116.76910810594963, 116.77683554845571, 116.77826445465047, 116.78084242848408, 116.77401991502256, 116.77638995942519, 116.77399586120882, 116.77495147181153, 116.77556926797355, 116.77268348553729, 116.77104981731854, 116.77041832398696, 116.7704752175009, 116.77038170411163, 116.77074733528013]

[112.61496131943169, 112.65507364117605, 112.51967927873218, 112.61826717481537, 112.79042125003639, 112.60519649752584, 112.6449823277353, 112.5610030182695, 112.56083742451767, 112.5966966057801, 112.59992934050646, 112.57419612832996, 112.61258063918221, 112.60199329250071, 112.62031233938117, 112.61484611806172, 112.62789817493795, 112.62375309326285, 112.6213509462354, 112.61975545399012, 112.61660982832889, 112.6159255405776]

[1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22]

[0.05, 0.05, 0.05, 0.05, 0.05, 0.05, 0.01, 0.01, 0.01, 0.01, 0.01, 0.01, 0.005, 0.005, 0.005, 0.005, 0.005, 0.001, 0.001, 0.001, 0.001, 0.001]

CUDA is available! Training on GPU ...

test loss from 0 : 8.705543518066406

Output of network: tensor([12.8590, 15.7529, -0.3846, 12.2453, 9.3890, 4.3938, 2.5041, 24.0620,

28.4192, 1.5286, 12.6894, 26.6492, 22.8743, 0.9076, 1.4365, -0.0561,

1.4544, 1.8497, 27.9742, 2.8806, 2.1493, 38.4997, 14.5286, 0.3495,

25.0275, 28.5833, 0.9340, 1.0857, 12.7810, 0.6429, 21.6899, 0.4041,

14.1196, 5.7087, 1.1327, 1.4717, 5.4660, 0.6382, 15.6079, 0.6562,

0.2129, 19.7411, 14.8339, 10.6008, 0.9039, 0.7554, 26.4753, 0.6610,

0.7440, 2.2295, -0.2550, 1.0393, 12.0048, 1.5124, 0.5966, 5.7378,

20.1925, 9.6816, 24.3721, 12.1435], device='cuda:0')

Target Values: tensor([ 8.8612, 13.8704, 0.0000, 14.0826, 16.7069, 9.9999, 3.4293, 27.1545,

30.5333, 0.0000, 15.6925, 29.5445, 17.7824, 0.0000, 0.0000, 0.0000,

0.0000, 0.0000, 25.2060, 2.0798, 0.0000, 38.5423, 16.9126, 0.0000,

16.4176, 29.5312, 0.3041, 0.0000, 12.5302, 0.0000, 24.8735, 0.0000,

17.3701, 11.4069, 0.0000, 0.0000, 10.6400, 0.0000, 18.6133, 1.3700,

0.0000, 19.7065, 11.1615, 11.7912, 0.0000, 0.0000, 24.8396, 0.0000,

0.0000, 7.3082, 0.0000, 0.0000, 7.7832, 0.0000, 0.0000, 6.3207,

11.6752, 10.5683, 21.4631, 14.6868], device='cuda:0')

test loss from 1 : 19.2954044342041

Output of network: tensor([-2.0958e-01, 5.8459e+00, 1.0143e+00, 7.1632e+00, 4.8022e+00,

3.2162e+01, -1.6499e-01, 4.1955e+00, 2.1321e+01, 1.7452e+00,

2.0499e+01, 2.2804e+01, 1.4962e+00, 1.6939e+01, 4.2155e-01,

5.8438e-01, 2.2087e+01, 8.6865e+00, 2.9166e+00, -5.0487e-02,

1.9322e+01, 1.1800e+01, 6.8342e+00, 2.1047e+01, 5.2732e-01,

1.1598e+01, 7.1677e-01, 7.3235e+00, 6.1871e-01, 6.5771e+00,

2.8177e-01, -3.0924e-02, 1.7211e+00, 2.8851e+01, 2.8747e+01,

2.1755e+01, 3.6909e+00, 6.9330e-01, 1.2713e+01, 1.7410e+00,

4.7987e-01, 1.2137e-01, 1.5661e+00, 5.2084e+00, 1.3335e+00,

2.4213e+01, 1.6177e+01, 4.3340e-01, 2.3508e+01, 7.7845e-01,

2.1756e+01, 1.0075e+01, 3.2186e+01, 9.4386e-02, 6.3110e-01,

2.0361e+01, 8.5444e+00, -2.5540e-01, 1.5612e+00, 2.3965e+01],

device='cuda:0')

Target Values: tensor([ 0.0000, 8.8836, 0.0000, 3.9808, 0.0000, 35.3616, 0.0000, 8.7341,

18.8295, 0.0000, 4.9553, 23.4208, 0.0000, 21.5092, 0.0000, 0.0000,

24.8610, 9.5255, 2.5500, 0.0000, 23.5689, 17.3183, 19.7555, 15.2632,

0.0000, 17.8977, 0.0000, 10.4797, 0.0000, 2.3082, 0.0000, 0.0000,

0.0000, 24.6775, 26.0920, 21.3098, 15.4230, 0.0000, 7.2828, 0.0000,

0.0000, 0.0000, 0.0000, 6.9969, 0.0000, 26.4705, 17.4570, 0.0000,

34.9331, 0.0000, 15.9750, 14.6657, 36.8551, 0.0000, 0.0000, 22.8363,

10.6708, 0.0000, 0.0000, 30.8990], device='cuda:0')

test loss from 2 : 10.496196746826172

Output of network: tensor([ 0.2734, 29.1792, 10.5311, 7.6476, 23.0202, 0.9171, 9.0765, 24.5003,

-0.1138, 0.8546, 6.5444, 25.4357, 26.7582, 1.0861, 16.7849, 13.2328,

0.4852, 17.3631, 2.0132, 1.7549, 0.7461, 0.0931, 13.1431, 8.1630,

17.0981, 25.9824, 1.1004, 3.5098, 0.3564, 23.0672, 0.1343, 1.7985,

18.5041, 7.5597, 16.9434, 0.6883, 1.9616, 0.8367, 30.0440, 3.4298,

0.6017, 24.5779, 1.4094, 0.5056, 1.1673, 9.1705, 1.6822, 0.8917,

15.1187, 1.2500, 1.0251, 0.3856, 0.8574, 26.4744, 1.0751, 6.6365,

20.3987, 3.2248, 1.5105, -0.1274], device='cuda:0')

Target Values: tensor([ 0.0000, 30.3332, 12.7003, 8.8241, 28.1160, 0.0000, 11.6962, 24.7370,

0.0000, 0.0000, 1.0218, 27.6596, 16.2146, 0.0000, 17.5418, 12.8928,

0.0000, 24.4852, 0.0000, 0.2876, 0.0000, 0.0000, 14.9423, 4.9714,

23.5549, 35.8561, 0.0000, 3.6860, 0.0000, 27.5434, 0.0000, 0.0000,

18.4218, 11.1464, 15.5024, 0.0000, 0.0000, 0.0000, 32.9471, 1.8823,

0.0000, 27.8203, 0.0000, 0.0000, 0.0000, 12.8780, 6.5691, 0.0000,

14.9092, 0.0000, 0.0000, 0.0000, 0.0000, 22.6217, 0.0000, 16.0596,

17.1985, 4.1097, 0.3859, 0.0000], device='cuda:0')

test loss from 3 : 12.788207054138184

Output of network: tensor([ 2.8274, 0.8007, 22.7725, 20.3148, 1.8042, 0.2483, 0.1963, 0.0913,

9.2577, 3.2375, 21.2623, 0.9424, 1.4232, -0.0362, 1.0688, 13.6546,

17.5111, 0.0604, 15.8413, 1.3606, 3.6964, 2.8575, 14.5004, 0.8636,

0.6080, 1.9463, 0.7398, 2.7951, 6.9782, 0.3348, 0.3065, 1.5154,

24.7812, 16.6861, 1.5686, 25.6181, 21.4403, 2.2357, -0.1252, 1.1134,

31.7707, 0.0528, 18.8218, 0.7275, 5.2120, 5.2083, 20.1649, 0.0837,

1.2951, 29.6354, 0.4323, 1.1300, 3.0348, 22.6236, 4.6500, 0.5654,

4.5644, 24.4027, 0.4916, 0.6303], device='cuda:0')

Target Values: tensor([ 0.0000, 0.0000, 27.3509, 20.7218, 0.0000, 0.0000, 0.0000, 0.0000,

7.0335, 0.0000, 20.8146, 0.0000, 0.0000, 0.0000, 0.0000, 18.9435,

17.1624, 0.0000, 16.0435, 0.0000, 3.9912, 0.4020, 16.9740, 0.0000,

0.0000, 6.6065, 0.0000, 8.8143, 12.4586, 0.0000, 0.0000, 3.6128,

24.4785, 20.2865, 0.0000, 28.2208, 8.5541, 0.0000, 0.0000, 0.0000,

26.0233, 0.0000, 20.8026, 0.0000, 12.3931, 0.0000, 29.9679, 0.0000,

0.0571, 31.1037, 0.0000, 0.0000, 4.7707, 23.4603, 3.5322, 0.0000,

5.5860, 14.6444, 8.4928, 0.0000], device='cuda:0')

test loss from 4 : 24.483806610107422

Output of network: tensor([-0.6132, 4.4792, 2.5046, 1.3141, 1.3654, 0.3290, -0.1378, 0.3125,

20.3119, 18.9050, 22.2246, 1.9696, 20.5508, 27.3779, 17.2524, 15.0465,

31.2526, 4.1026, 9.4269, 0.7494, 2.0180, 18.6946, 3.3630, 3.3052,

14.9214, 4.1877, 24.5331, 15.4554, -0.3697, 0.2900, 0.5441, 0.0332,

0.6320, 1.1954, 3.1088, 0.3125, 7.9123, 1.6731, 1.6525, 23.5415,

-0.0559, 4.2173, 6.5681, 20.8453, 2.7348, 14.0539, 0.9795, 0.1389,

19.7325, 30.3309, 2.3288, 1.8055, -0.3422, 12.4571, 0.1698, 17.7040,

1.4045, -0.0969, 30.5629, 3.1187], device='cuda:0')

Target Values: tensor([ 0.0000, 0.0000, 0.0000, 0.0000, 0.0000, 0.0000, 0.0000, 0.0000,

18.6537, 20.8849, 42.4520, 7.0393, 23.0453, 22.6090, 20.0027, 16.0287,

33.2862, 2.6317, 18.0532, 0.0000, 0.0000, 20.0875, 0.0000, 7.0383,

31.7541, 1.9625, 21.5845, 20.0222, 0.0000, 0.0000, 0.0000, 0.0000,

0.0000, 0.0000, 0.0000, 0.0000, 12.1533, 3.2195, 0.0000, 23.5890,

0.0000, 2.7716, 8.5894, 38.0756, 0.0000, 18.3873, 0.0000, 0.0000,

23.2249, 36.8842, 0.0000, 0.0000, 0.0000, 3.7744, 0.0000, 21.5712,

0.0000, 0.0000, 28.2606, 1.7068], device='cuda:0')

test loss from 5 : 11.583172798156738

Output of network: tensor([25.9391, 1.4711, 1.5509, 1.0903, 0.8451, 1.5750, 0.9258, 1.0597,

0.1332, 1.5078, 8.1424, 3.9436, 5.2426, 0.1681, 31.8813, 3.7565,

21.1010, 0.5021, 21.1652, 16.6290, 2.5268, 21.2459, 1.4284, 20.1576,

1.1873, 0.6346, 16.0454, 21.5749, 2.6325, 0.2068, 22.3933, 22.9409,

1.8109, 9.4814, 2.2726, 4.6595, 24.2114, 1.1973, 9.3890, 0.9737,

0.3817, 3.2877, 0.5077, 1.5691, 25.3746, -0.2510, 28.7341, 2.0958,

24.1164, 32.0965, 0.7170, 34.4629, 19.9223, 14.5996, 1.2119, 3.9284,

-0.0782, 7.0965, 25.5264, 6.4848], device='cuda:0')

Target Values: tensor([32.5708, 3.9615, 2.5529, 0.0000, 0.0000, 0.0000, 0.0000, 0.0000,

0.0000, 1.2150, 9.4160, 5.4666, 13.2754, 0.0000, 36.7404, 0.3302,

26.5250, 0.2809, 22.9336, 19.3509, 3.9371, 15.4149, 10.4801, 23.4072,

0.0000, 0.0000, 15.1465, 24.6982, 3.2024, 0.0000, 29.2334, 24.6838,

0.0000, 9.3100, 0.0000, 9.8905, 25.6671, 0.0000, 6.6951, 0.0000,

0.0000, 3.9883, 0.0000, 0.0000, 22.3201, 0.0000, 24.2257, 0.0000,

23.9998, 26.5196, 0.2127, 41.5678, 21.7133, 16.0887, 3.4928, 0.0000,

0.0000, 16.4062, 25.5163, 11.2581], device='cuda:0')

test loss from 6 : 13.554101943969727

Output of network: tensor([22.2246, 6.0470, 21.7611, 27.4144, 2.6340, 2.2164, 18.9301, 25.2858,

0.7107, 0.4372, 0.9210, 3.9535, 18.2637, 0.3961, 0.6879, 28.7474,

0.6347, 15.7088, 0.2770, 24.3999, -0.6282, 0.0298, 1.0523, -1.1279,

16.1600, 0.3795, 1.9632, 0.8288, 19.0213, 2.5543, 26.4818, 1.0209,

26.9810, 0.2932, 3.7189, 0.3173, 1.2918, 20.3049, -0.2841, 26.5941,

0.8347, 0.5170, 0.0850, 7.9953, 7.1982, 19.3707, 20.3310, 0.1957,

2.7315, 13.7008, 22.0937, 16.0796, -0.0333, 1.6782, 16.1911, 27.9657,

20.2500, 4.4978, 1.5055, -0.1137], device='cuda:0')

Target Values: tensor([22.2571, 12.2480, 26.6621, 30.1222, 0.0000, 0.0000, 27.6280, 23.9268,

0.0000, 0.0000, 0.0000, 4.0756, 16.6665, 0.0000, 0.0000, 25.7475,

0.0000, 21.4920, 0.0000, 26.1588, 0.0000, 0.0000, 0.0000, 0.0000,

11.4460, 0.0000, 0.0000, 0.0000, 20.4960, 0.0000, 28.7621, 0.0000,

34.9031, 0.0000, 3.0475, 0.0000, 0.0000, 23.5786, 0.0000, 31.6879,

0.0000, 0.0000, 0.0000, 15.6044, 1.3522, 19.5220, 26.9254, 0.0000,

0.0000, 16.4842, 22.3679, 20.1161, 0.0000, 1.3970, 16.3637, 44.0830,

22.7685, 0.0000, 0.0000, 0.0000], device='cuda:0')

test loss from 7 : 12.913476943969727

Output of network: tensor([ 1.9461e+01, 8.6911e-01, 1.8497e+01, 9.6847e-01, 2.5832e+00,

1.9610e+01, 6.5421e+00, 2.2988e+01, 9.5301e-01, 2.1243e+01,

2.5473e+01, 8.2382e-01, 1.9737e+01, 1.8964e+00, -1.0241e-01,

4.7249e+00, 1.6065e+01, 2.5643e+00, 1.2783e+01, 3.0110e+01,

3.6653e+00, 2.5169e-01, 6.3554e-01, 2.0451e+00, -1.5747e-02,

2.0079e+01, 2.9537e+01, 1.1748e+00, 2.4377e+01, 2.4387e+01,

9.7435e+00, 1.5192e+01, 4.5119e+00, 2.7813e-01, 1.0324e-01,

2.2461e+00, 1.4191e+00, 1.9347e+01, 6.3877e-01, 1.0215e+00,

1.8447e+01, 5.3009e-01, 1.4770e+00, 6.7771e+00, 1.6376e+01,

5.1839e-01, 5.8451e+00, 2.1807e-01, 4.5614e-01, -3.9300e-01,

9.9814e-01, 1.5096e+00, 3.9365e+00, 8.2083e-01, 1.0480e+00,

4.7754e-01, 3.9141e+00, 6.2859e-01, 1.5373e-01, 1.3022e+00],

device='cuda:0')

Target Values: tensor([21.3546, 0.0000, 23.3385, 0.0000, 0.0000, 19.8620, 7.0483, 17.4719,

0.0000, 18.1507, 36.8295, 0.0000, 17.0595, 0.0000, 0.0000, 9.9213,

16.9256, 0.4880, 10.9727, 25.4200, 5.2127, 0.0000, 0.0000, 7.8973,

0.0000, 25.0267, 32.9778, 0.0000, 26.4203, 28.0106, 8.5298, 14.7567,

5.3239, 0.0000, 0.0000, 6.6921, 1.9009, 22.9074, 0.0000, 0.0000,

17.9064, 0.0000, 0.0000, 0.7110, 13.3438, 0.0000, 4.8280, 0.0000,

0.0000, 0.0000, 0.0000, 0.0000, 2.7692, 0.0000, 0.0000, 0.0000,

21.5934, 0.0000, 0.0000, 0.0000], device='cuda:0')

test loss from 8 : 17.5146484375

Output of network: tensor([ 1.1547e+00, 6.4469e-01, 7.1847e-01, 1.3015e+01, 3.0730e+00,

5.6287e-01, 2.8638e+01, 1.9760e+01, -7.4315e-01, 4.0493e-01,

1.7152e+01, 8.0663e-01, 6.7500e-01, 1.8639e+00, 1.1879e+00,

2.1842e+01, 2.2551e+01, 2.9274e-01, 2.1970e+01, 2.5559e+00,

2.5473e+00, 4.0686e-01, 2.2220e+01, 1.4582e+00, 1.6157e+01,

8.4276e-01, 8.6917e-02, 1.8685e+01, 1.9430e+01, 5.2185e-01,

2.4072e+01, 1.3880e+00, 7.2376e-02, 1.8958e+01, 3.3833e+01,

-3.2597e-02, 2.7622e+00, 4.8847e+00, 1.0169e+01, 1.0324e-01,

1.7535e+01, 1.0364e+00, 2.0061e+01, 2.3304e+01, 1.8160e+00,

1.2028e+01, 2.6264e+01, 2.1584e+01, 3.4352e+01, 2.3442e+01,

1.4229e-02, 8.9025e-01, 9.0412e-01, 8.6122e-01, 1.3424e+01,

6.6600e-01, 7.1298e-01, -7.4315e-01, 4.0831e+00, 9.3119e-02],

device='cuda:0')

Target Values: tensor([ 0.0000, 0.0000, 0.0000, 16.2606, 0.0000, 0.0000, 33.7366, 17.6511,

0.0000, 0.0000, 18.4145, 0.0000, 0.0000, 0.0000, 0.2900, 25.7826,

22.1670, 0.0000, 21.7065, 6.0708, 0.0000, 0.0000, 23.7122, 0.3803,

15.8627, 0.0000, 0.0000, 17.6050, 17.8503, 0.0000, 24.7318, 1.2395,

0.0000, 24.8604, 38.0996, 0.0000, 0.0000, 13.5791, 7.3344, 0.0000,

16.3223, 0.0000, 27.7638, 28.1983, 0.0000, 9.7382, 20.9213, 22.3828,

36.2873, 31.1309, 0.0000, 0.0000, 0.0000, 0.0000, 37.8266, 0.0000,

0.0000, 0.0000, 0.0000, 0.0000], device='cuda:0')

test loss from 9 : 13.379350662231445

Output of network: tensor([ 0.4738, 2.0242, 2.1891, 1.7397, 0.6540, 15.1079, 9.5563, 2.2610,

8.8533, 1.4498, 1.9822, 0.5410, 2.4385, -0.2734, 30.5359, 1.1825,

30.2123, -0.2430, 0.4738, 35.0850, -0.1096, 20.0114, 0.5589, 21.7060,

32.3497, 3.3175, 7.1785, 4.1027, 1.6175, 1.5194, 0.7291, 13.2052,

0.3466, 6.7929, 2.2619, 15.3283, 14.5004, 2.5940, 2.9194, 0.5937,

9.2813, -0.6042, 23.9158, 0.0380, 0.3510, -0.2696, 31.3495, 0.1774,

0.8865, 23.3035, 29.2256, -0.2221, 1.2532, 0.5136, 13.8786, 4.6375,

11.2912, 8.6069, 11.4064, 33.1026], device='cuda:0')

Target Values: tensor([ 0.0000, 2.3020, 0.0000, 4.0143, 0.0000, 20.7776, 16.0000, 0.0000,

17.8555, 0.0000, 0.0000, 0.0000, 0.0000, 0.0000, 34.6357, 0.0000,

25.6045, 0.0000, 0.0000, 39.8455, 0.0000, 11.5262, 0.0000, 25.3086,

34.2564, 7.7979, 8.5917, 0.0000, 0.0000, 0.0000, 0.0000, 14.8221,

0.0000, 5.7044, 0.0000, 17.7644, 16.4708, 0.4104, 0.0000, 0.0000,

17.3969, 0.0000, 28.4139, 0.0000, 0.0000, 0.0000, 22.1028, 0.0000,

0.0000, 22.3774, 29.9852, 0.0000, 3.0627, 0.0000, 15.5124, 10.1516,

15.7410, 20.4040, 15.1884, 35.8185], device='cuda:0')

Test Loss (mean squared error): 3.372026

Test Loss Real (mean squared error): 4.478966

Time: 198.70813512802124

Max loss: 25.87344741821289

targets: [-10.0, -10.0, -10.0]

output: [-10.0, -10.0, -10.0]

max\_count: 50

ALL ABOVE is model\_BCI\_FULL\_short

# March

Epoch #: 1

Epoch: 1 Training Loss: 37.658272 Validation Loss: 48.859951

Validation loss decreased (inf --> 48.859951). Saving model ...

Time: 139.02056908607483

Current Time = 10:14:14

LR: 0.001

Epoch #: 2

Epoch: 2 Training Loss: 28.106911 Validation Loss: 18.831976

Validation loss decreased (48.859951 --> 18.831976). Saving model ...

Time: 126.61881828308105

Current Time = 10:16:20

LR: 0.001

Epoch #: 3

Epoch: 3 Training Loss: 22.481068 Validation Loss: 13.439075

Validation loss decreased (18.831976 --> 13.439075). Saving model ...

Time: 130.10855793952942

Current Time = 10:18:30

LR: 0.001

Epoch #: 4

Epoch: 4 Training Loss: 18.102264 Validation Loss: 10.802274

Validation loss decreased (13.439075 --> 10.802274). Saving model ...

Time: 126.71271872520447

Current Time = 10:20:37

LR: 0.001

Epoch #: 5

Epoch: 5 Training Loss: 14.970316 Validation Loss: 8.732259

Validation loss decreased (10.802274 --> 8.732259). Saving model ...

Time: 123.13286066055298

Current Time = 10:22:40

LR: 0.001

Epoch #: 6

Epoch: 6 Training Loss: 12.164286 Validation Loss: 7.210446

Validation loss decreased (8.732259 --> 7.210446). Saving model ...

Time: 124.4181969165802

Current Time = 10:24:45

LR: 0.001

Epoch #: 7

Epoch: 7 Training Loss: 11.483439 Validation Loss: 6.917342

Validation loss decreased (7.210446 --> 6.917342). Saving model ...

Time: 125.13877487182617

Current Time = 10:26:50

LR: 0.001

Epoch #: 8

Epoch: 8 Training Loss: 10.151414 Validation Loss: 6.124235

Validation loss decreased (6.917342 --> 6.124235). Saving model ...

Time: 122.06102728843689

Current Time = 10:28:52

LR: 0.001

Epoch #: 9

Epoch: 9 Training Loss: 10.243111 Validation Loss: 11.983597

Time: 122.19614052772522

Current Time = 10:30:54

LR: 0.001

Epoch #: 10

Epoch: 10 Training Loss: 9.985783 Validation Loss: 5.531937

Validation loss decreased (6.124235 --> 5.531937). Saving model ...

Time: 121.89977097511292

Current Time = 10:32:56

LR: 0.001

Epoch #: 11

Epoch: 11 Training Loss: 9.223156 Validation Loss: 5.105700

Validation loss decreased (5.531937 --> 5.105700). Saving model ...

Time: 121.69847202301025

Current Time = 10:34:58

LR: 0.001

Epoch #: 12

Epoch: 12 Training Loss: 8.751811 Validation Loss: 4.811626

Validation loss decreased (5.105700 --> 4.811626). Saving model ...

Time: 121.26662683486938

Current Time = 10:36:59

LR: 0.001

Epoch #: 13

Epoch: 13 Training Loss: 8.641826 Validation Loss: 4.955979

Time: 121.8369631767273

Current Time = 10:39:01

LR: 0.001

Epoch #: 14

Epoch: 14 Training Loss: 8.042670 Validation Loss: 4.700053

Validation loss decreased (4.811626 --> 4.700053). Saving model ...

Time: 121.828125

Current Time = 10:41:03

LR: 0.001

Epoch #: 15

Epoch: 15 Training Loss: 8.282788 Validation Loss: 5.835778

Time: 122.11136770248413

Current Time = 10:43:05

LR: 0.001

Epoch #: 16

Epoch: 16 Training Loss: 7.711941 Validation Loss: 6.486150

Time: 122.53224229812622

Current Time = 10:45:07

LR: 0.001

Epoch #: 17

Epoch: 17 Training Loss: 7.694754 Validation Loss: 7.552751

Time: 122.02260494232178

Current Time = 10:47:09

LR: 0.001

Epoch #: 18

Epoch: 18 Training Loss: 7.911830 Validation Loss: 4.521609

Validation loss decreased (4.700053 --> 4.521609). Saving model ...

Time: 121.52493596076965

Current Time = 10:49:11

LR: 0.001

Epoch #: 19

Epoch: 19 Training Loss: 7.092559 Validation Loss: 5.465538

Time: 121.60871267318726

Current Time = 10:51:12

LR: 0.001

Epoch #: 20

Epoch: 20 Training Loss: 7.246141 Validation Loss: 5.755381

Time: 121.89796710014343

Current Time = 10:53:14

LR: 0.001

Epoch #: 21

Epoch: 21 Training Loss: 7.045011 Validation Loss: 4.088367

Validation loss decreased (4.521609 --> 4.088367). Saving model ...

Time: 121.57978868484497

Current Time = 10:55:16

LR: 0.001

Epoch #: 22

Epoch: 22 Training Loss: 6.248569 Validation Loss: 4.011995

Validation loss decreased (4.088367 --> 4.011995). Saving model ...

Time: 121.84707403182983

Current Time = 10:57:18

LR: 0.001

Epoch #: 23

Epoch: 23 Training Loss: 6.716198 Validation Loss: 3.746633

Validation loss decreased (4.011995 --> 3.746633). Saving model ...

Time: 128.12228894233704

Current Time = 10:59:26

LR: 0.001

Epoch #: 24

Epoch: 24 Training Loss: 6.357537 Validation Loss: 3.860777

Time: 122.70229458808899

Current Time = 11:01:29

LR: 0.001

Epoch #: 25

Epoch: 25 Training Loss: 6.428567 Validation Loss: 4.096196

Time: 121.75432205200195

Current Time = 11:03:30

LR: 0.001

Epoch #: 26

Epoch: 26 Training Loss: 6.529740 Validation Loss: 3.947903

Time: 121.81017231941223

Current Time = 11:05:32

LR: 0.001

Epoch #: 27

Epoch: 27 Training Loss: 5.940009 Validation Loss: 4.106793

Time: 121.8251326084137

Current Time = 11:07:34

LR: 0.001

Epoch #: 28

Epoch: 28 Training Loss: 5.922999 Validation Loss: 3.647741

Validation loss decreased (3.746633 --> 3.647741). Saving model ...

Time: 121.7772605419159

Current Time = 11:09:36

LR: 0.001

Epoch #: 29

Epoch: 29 Training Loss: 6.139152 Validation Loss: 3.818303

Time: 121.75432205200195

Current Time = 11:11:38

LR: 0.001

Epoch #: 30

Epoch: 30 Training Loss: 5.826471 Validation Loss: 3.467564

Validation loss decreased (3.647741 --> 3.467564). Saving model ...

Time: 121.56083869934082

Current Time = 11:13:39

LR: 0.001

Epoch #: 31

Epoch: 31 Training Loss: 5.850053 Validation Loss: 3.186732

Validation loss decreased (3.467564 --> 3.186732). Saving model ...

Time: 121.77825856208801

Current Time = 11:15:41

LR: 0.001

Epoch #: 32

Epoch: 32 Training Loss: 5.513929 Validation Loss: 3.441599

Time: 121.65259504318237

Current Time = 11:17:43

LR: 0.001

Epoch #: 33

Epoch: 33 Training Loss: 5.532675 Validation Loss: 3.613059

Time: 121.65658330917358

Current Time = 11:19:44

LR: 0.001

Epoch #: 34

Epoch: 34 Training Loss: 5.592573 Validation Loss: 2.844865

Validation loss decreased (3.186732 --> 2.844865). Saving model ...

Time: 121.96029376983643

Current Time = 11:21:46

LR: 0.001

Epoch #: 35

Epoch: 35 Training Loss: 5.136543 Validation Loss: 3.861967

Time: 121.73492050170898

Current Time = 11:23:48

LR: 0.001

Epoch #: 36

Epoch: 36 Training Loss: 5.130080 Validation Loss: 3.112200

Time: 121.5757999420166

Current Time = 11:25:50

LR: 0.001

Epoch #: 37

Epoch: 37 Training Loss: 4.708572 Validation Loss: 3.842345

Time: 121.76529288291931

Current Time = 11:27:51

LR: 0.001

Epoch #: 38

Epoch: 38 Training Loss: 5.318580 Validation Loss: 3.545924

Time: 121.42473912239075

Current Time = 11:29:53

LR: 0.001

Epoch #: 39

Epoch: 39 Training Loss: 5.364791 Validation Loss: 3.503247

Time: 121.79720687866211

Current Time = 11:31:55

LR: 0.001

Epoch #: 40

Epoch: 40 Training Loss: 5.079371 Validation Loss: 2.869303

Time: 121.26562833786011

Current Time = 11:33:56

LR: 0.001

Epoch #: 41

Epoch: 41 Training Loss: 4.963352 Validation Loss: 2.709395

Validation loss decreased (2.844865 --> 2.709395). Saving model ...

Time: 124.9692862033844

Current Time = 11:36:01

LR: 0.0009699999999999999

Epoch #: 42

Epoch: 42 Training Loss: 4.884148 Validation Loss: 3.051647

Time: 123.37014245986938

Current Time = 11:38:04

LR: 0.0009408999999999999

Epoch #: 43

Epoch: 43 Training Loss: 4.890610 Validation Loss: 3.424727

Time: 130.18343138694763

Current Time = 11:40:14

LR: 0.0009126729999999999

Epoch #: 44

Epoch: 44 Training Loss: 4.681749 Validation Loss: 2.966604

Time: 132.40221571922302

Current Time = 11:42:27

LR: 0.0008852928099999999

Epoch #: 45

Epoch: 45 Training Loss: 4.411620 Validation Loss: 3.185916

Time: 131.35962891578674

Current Time = 11:44:38

LR: 0.0008587340256999998

Epoch #: 46

Epoch: 46 Training Loss: 4.682928 Validation Loss: 2.730484

Time: 128.2988157272339

Current Time = 11:46:46

LR: 0.0008329720049289999

Epoch #: 47

Epoch: 47 Training Loss: 4.327414 Validation Loss: 2.963663

Time: 123.53790235519409

Current Time = 11:48:50

LR: 0.0008079828447811299

Epoch #: 48

Epoch: 48 Training Loss: 4.211925 Validation Loss: 2.649852

Validation loss decreased (2.709395 --> 2.649852). Saving model ...

Time: 122.97705078125

Current Time = 11:50:53

LR: 0.0007837433594376959

Epoch #: 49

Epoch: 49 Training Loss: 4.242333 Validation Loss: 2.519642

Validation loss decreased (2.649852 --> 2.519642). Saving model ...

Time: 123.2862241268158

Current Time = 11:52:56

LR: 0.000760231058654565

Epoch #: 50

Epoch: 50 Training Loss: 4.149464 Validation Loss: 2.604095

Time: 123.13562870025635

Current Time = 11:54:59

LR: 0.000737424126894928

Epoch #: 51

Epoch: 51 Training Loss: 4.335236 Validation Loss: 2.493966

Validation loss decreased (2.519642 --> 2.493966). Saving model ...

Time: 123.14066982269287

Current Time = 11:57:03

LR: 0.0007153014030880802

Epoch #: 52

Epoch: 52 Training Loss: 3.872686 Validation Loss: 2.622564

Time: 122.65037965774536

Current Time = 11:59:05

LR: 0.0006938423609954377

Epoch #: 53

Epoch: 53 Training Loss: 3.835311 Validation Loss: 2.489805

Validation loss decreased (2.493966 --> 2.489805). Saving model ...

Time: 123.14370894432068

Current Time = 12:01:08

LR: 0.0006730270901655745

Epoch #: 54

Epoch: 54 Training Loss: 4.151965 Validation Loss: 2.665286

Time: 122.94413995742798

Current Time = 12:03:11

LR: 0.0006528362774606073

Epoch #: 55

Epoch: 55 Training Loss: 3.713212 Validation Loss: 2.711882

Time: 123.00397992134094

Current Time = 12:05:14

LR: 0.0006332511891367891

Epoch #: 56

Epoch: 56 Training Loss: 3.944143 Validation Loss: 2.526075

Time: 122.85350894927979

Current Time = 12:07:17

LR: 0.0006142536534626854

Epoch #: 57

Epoch: 57 Training Loss: 4.100241 Validation Loss: 2.748478

Time: 123.17006015777588

Current Time = 12:09:20

LR: 0.0005958260438588048

Epoch #: 58

Epoch: 58 Training Loss: 4.095151 Validation Loss: 2.434910

Validation loss decreased (2.489805 --> 2.434910). Saving model ...

Time: 123.07978200912476

Current Time = 12:11:23

LR: 0.0005779512625430406

Epoch #: 59

Epoch: 59 Training Loss: 3.712962 Validation Loss: 2.271276

Validation loss decreased (2.434910 --> 2.271276). Saving model ...

Time: 122.99799489974976

Current Time = 12:13:26

LR: 0.0005606127246667494

Epoch #: 60

Epoch: 60 Training Loss: 3.612293 Validation Loss: 2.194477

Validation loss decreased (2.271276 --> 2.194477). Saving model ...

Time: 122.9578025341034

Current Time = 12:15:29

LR: 0.0005437943429267469

Epoch #: 61

Epoch: 61 Training Loss: 3.744449 Validation Loss: 2.957939

Time: 122.92120122909546

Current Time = 12:17:32

LR: 0.0005274805126389445

Epoch #: 62

Epoch: 62 Training Loss: 4.100066 Validation Loss: 2.247375

Time: 122.9112286567688

Current Time = 12:19:35

LR: 0.0005116560972597762

Epoch #: 63

Epoch: 63 Training Loss: 3.606979 Validation Loss: 2.211129

Time: 123.24034881591797

Current Time = 12:21:39

LR: 0.0004963064143419829

Epoch #: 64

Epoch: 64 Training Loss: 3.638100 Validation Loss: 2.455681

Time: 123.19945693016052

Current Time = 12:23:42

LR: 0.00048141722191172336

Epoch #: 65

Epoch: 65 Training Loss: 3.607796 Validation Loss: 3.021173

Time: 123.24433660507202

Current Time = 12:25:45

LR: 0.00046697470525437166

Epoch #: 66

Epoch: 66 Training Loss: 3.506904 Validation Loss: 2.410882

Time: 122.75664138793945

Current Time = 12:27:48

LR: 0.0004529654640967405

Epoch #: 67

Epoch: 67 Training Loss: 3.571572 Validation Loss: 2.473199

Time: 123.36143898963928

Current Time = 12:29:51

LR: 0.0004393765001738382

Epoch #: 68

Epoch: 68 Training Loss: 3.426045 Validation Loss: 2.339318

Time: 123.0608274936676

Current Time = 12:31:54

LR: 0.00042619520516862307

Epoch #: 69

Epoch: 69 Training Loss: 3.483899 Validation Loss: 2.584514

Time: 123.15734481811523

Current Time = 12:33:57

LR: 0.00041340934901356436

Epoch #: 70

Epoch: 70 Training Loss: 3.449504 Validation Loss: 2.377307

Time: 122.79154706001282

Current Time = 12:36:00

LR: 0.0004010070685431574

Epoch #: 71

Epoch: 71 Training Loss: 3.521333 Validation Loss: 2.495858

Time: 123.01195859909058

Current Time = 12:38:03

LR: 0.0003889768564868627

Epoch #: 72

Epoch: 72 Training Loss: 3.340856 Validation Loss: 2.161614

Validation loss decreased (2.194477 --> 2.161614). Saving model ...

Time: 123.74300241470337

Current Time = 12:40:07

LR: 0.0003773075507922568

Epoch #: 73

Epoch: 73 Training Loss: 3.172420 Validation Loss: 2.543387

Time: 123.4069013595581

Current Time = 12:42:10

LR: 0.0003659883242684891

Epoch #: 74

Epoch: 74 Training Loss: 3.321736 Validation Loss: 3.015619

Time: 123.62574076652527

Current Time = 12:44:14

LR: 0.00035500867454043444

Epoch #: 75

Epoch: 75 Training Loss: 3.140928 Validation Loss: 2.072548

Validation loss decreased (2.161614 --> 2.072548). Saving model ...

Time: 123.78389310836792

Current Time = 12:46:18

LR: 0.0003443584143042214

Epoch #: 76

Epoch: 76 Training Loss: 3.439990 Validation Loss: 2.173985

Time: 123.62132811546326

Current Time = 12:48:21

LR: 0.00033402766187509475

Epoch #: 77

Epoch: 77 Training Loss: 3.178504 Validation Loss: 2.370391

Time: 123.68267250061035

Current Time = 12:50:25

LR: 0.0003240068320188419

Epoch #: 78

Epoch: 78 Training Loss: 3.247340 Validation Loss: 2.061314

Validation loss decreased (2.072548 --> 2.061314). Saving model ...

Time: 123.1236584186554

Current Time = 12:52:28

LR: 0.00031428662705827666

Epoch #: 79

Epoch: 79 Training Loss: 3.380690 Validation Loss: 2.305773

Time: 123.51561117172241

Current Time = 12:54:32

LR: 0.00030485802824652835

Epoch #: 80

Epoch: 80 Training Loss: 3.249467 Validation Loss: 2.232183

Time: 123.29226851463318

Current Time = 12:56:35

LR: 0.0002957122873991325

Operation Complete

[37.65827169715679, 28.10691111327779, 22.481068375730434, 18.102264462085547, 14.970316157058933, 12.16428635770069, 11.483439005733148, 10.15141396227893, 10.243111335216323, 9.985782969352664, 9.223156094593516, 8.751811484244051, 8.641826022993392, 8.042670208829241, 8.28278797269207, 7.711941051999094, 7.694753825961525, 7.911829610993759, 7.092558655586594, 7.246140555599556, 7.045010793156464, 6.248569432374489, 6.716198268217079, 6.357537190843551, 6.428567166259865, 6.529739706272128, 5.940009119799509, 5.9229989721140655, 6.1391516046254875, 5.826470809939884, 5.850052676942191, 5.513929227498574, 5.532675483983205, 5.592572956640859, 5.136543179134539, 5.130080082528038, 4.708571956758143, 5.318580334373921, 5.364790780928011, 5.07937108885692, 4.963351644804714, 4.884148204117878, 4.890609630682677, 4.681749139600571, 4.411619803866112, 4.682928066539466, 4.327414160518502, 4.2119245346007625, 4.242333131942024, 4.149463744341886, 4.335236017136137, 3.8726861135660755, 3.8353109464796096, 4.151964735260959, 3.7132119504026306, 3.9441432743312066, 4.100241271647411, 4.095150874825809, 3.712961795466161, 3.6122932728541195, 3.744449008425914, 4.100066240834484, 3.6069793448505547, 3.638099521396622, 3.607796117981603, 3.5069039059900478, 3.5715721338761415, 3.4260448371410233, 3.4838990175795312, 3.449503799119714, 3.5213325366012938, 3.340855754759154, 3.1724197790196382, 3.321736028532504, 3.140927946530198, 3.4399895244076473, 3.1785037859824565, 3.247339582067526, 3.3806901286464344, 3.249466509560382]

[48.85995065548506, 18.831975940689148, 13.439075374983222, 10.802274336377938, 8.732259305587327, 7.210445709437488, 6.917342331958007, 6.124235294135918, 11.983597233950855, 5.531936867066114, 5.105699583828687, 4.8116261478201805, 4.9559794337863465, 4.70005256175045, 5.835777947389747, 6.486150152179825, 7.552750986826372, 4.521608851226677, 5.465537751457131, 5.755380538117838, 4.088366697034038, 4.011994868487238, 3.7466332512310303, 3.860777107338269, 4.0961958852065985, 3.947902948673503, 4.106793387062046, 3.6477412343975084, 3.818303343546818, 3.4675635170651624, 3.1867317977951344, 3.4415993003018825, 3.6130593407498415, 2.844865192158289, 3.861967210661605, 3.112199945486637, 3.8423446790868065, 3.5459239522061976, 3.503246675330804, 2.8693028272563716, 2.709395137797314, 3.051646606722082, 3.4247268673730087, 2.9666039291843473, 3.1859157969395953, 2.7304842846089623, 2.9636627637235766, 2.649851626787053, 2.519641563593154, 2.604095214629078, 2.493965734434555, 2.6225639106149217, 2.489805168542729, 2.665286039718356, 2.711882303643274, 2.5260753347816696, 2.7484782108985097, 2.434910459644291, 2.271276426683384, 2.194476709986825, 2.9579390624604853, 2.2473752555767614, 2.2111292296196834, 2.4556807207752507, 3.0211732859511775, 2.4108824221736405, 2.4731993797528316, 2.339317602546982, 2.584513745118541, 2.3773069276633967, 2.4958577017147703, 2.161614146603056, 2.543387160135574, 3.0156187540387727, 2.0725475866718597, 2.1739851425724677, 2.3703914130351458, 2.061314048757591, 2.3057731305401163, 2.232183356951195]

[1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80]

[0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.001, 0.0009699999999999999, 0.0009408999999999999, 0.0009126729999999999, 0.0008852928099999999, 0.0008587340256999998, 0.0008329720049289999, 0.0008079828447811299, 0.0007837433594376959, 0.000760231058654565, 0.000737424126894928, 0.0007153014030880802, 0.0006938423609954377, 0.0006730270901655745, 0.0006528362774606073, 0.0006332511891367891, 0.0006142536534626854, 0.0005958260438588048, 0.0005779512625430406, 0.0005606127246667494, 0.0005437943429267469, 0.0005274805126389445, 0.0005116560972597762, 0.0004963064143419829, 0.00048141722191172336, 0.00046697470525437166, 0.0004529654640967405, 0.0004393765001738382, 0.00042619520516862307, 0.00041340934901356436, 0.0004010070685431574, 0.0003889768564868627, 0.0003773075507922568, 0.0003659883242684891, 0.00035500867454043444, 0.0003443584143042214, 0.00033402766187509475, 0.0003240068320188419, 0.00031428662705827666, 0.00030485802824652835, 0.0002957122873991325]

test loss from 0 : 1.4144481420516968

Output of network: tensor([ 0.0566, 0.2488, 14.1215, 0.5957, -0.0649, 0.6552], device='cuda:0')

Target Values: tensor([ 0.0000, 0.0000, 16.1392, 2.2976, 0.0000, 1.8592], device='cuda:0')

loss from this run: 1.4144481420516968

Output 3 : 14.12151050567627

Target 3 : 16.13922691345215

Target 4 : 2.297616481781006

test loss from 1 : 0.7600640058517456

Output of network: tensor([ 0.8965, 0.1000, -0.1553, -0.0250, 7.5731, 0.3491], device='cuda:0')

Target Values: tensor([0.3450, 0.0000, 0.0000, 0.0000, 9.5978, 0.0000], device='cuda:0')

loss from this run: 0.7600640058517456

Output 5 : 7.573068618774414

Target 5 : 9.597816467285156

test loss from 2 : 2.471204996109009

Output of network: tensor([17.5545, 0.7886, 16.2538, 17.1966, 11.9625, 19.0130], device='cuda:0')

Target Values: tensor([18.7153, 0.0000, 15.4333, 17.7399, 11.0774, 22.3456], device='cuda:0')

test loss from 2 : 0.94587242603302

Output of network: tensor([18.8928, 12.1011, 4.6134, 2.6016, 24.5212, 0.1828], device='cuda:0')

Target Values: tensor([18.8512, 12.6306, 2.5995, 1.4611, 24.5765, 0.0000], device='cuda:0')

test loss from 2 : 6.74555778503418

Output of network: tensor([14.2551, 3.9291, 0.4280, 0.2548, 16.0286, -0.0995], device='cuda:0')

Target Values: tensor([16.4426, 8.7128, 0.0000, 0.0000, 19.5706, 0.0000], device='cuda:0')

test loss from 2 : 0.8818467855453491

Output of network: tensor([ 7.2703, 15.2456, 0.2934, 0.3599, 0.4191, 11.1215], device='cuda:0')

Target Values: tensor([ 7.7990, 17.3673, 0.0000, 0.0000, 0.0000, 11.4660], device='cuda:0')

test loss from 2 : 0.6313908100128174

Output of network: tensor([ 0.3697, 0.2074, 0.2876, 0.3517, 17.9830, 0.5254], device='cuda:0')

Target Values: tensor([ 0.0000, 0.0000, 0.0000, 0.0000, 19.7512, 0.0000], device='cuda:0')

test loss from 2 : 0.307797372341156

Output of network: tensor([5.8784e-01, 7.2769e-01, 1.2147e+01, 5.4342e-01, 2.2046e+01, 1.1943e-02],

device='cuda:0')

Target Values: tensor([ 0.0000, 0.0000, 11.8586, 0.4023, 22.9777, 0.0000], device='cuda:0')

test loss from 2 : 7.404851913452148

Output of network: tensor([ 0.5924, 4.0607, 19.9455, 0.5002, 0.1376, 10.5613], device='cuda:0')

Target Values: tensor([ 0.0000, 0.0000, 22.9768, 0.0000, 0.0000, 14.8193], device='cuda:0')

test loss from 2 : 7.928980827331543

Output of network: tensor([16.8608, 14.3137, 0.5220, 4.3521, 2.7271, 15.1831], device='cuda:0')

Target Values: tensor([15.2046, 15.3181, 0.0000, 3.8097, 8.6174, 12.2575], device='cuda:0')

test loss from 2 : 0.4299120604991913

Output of network: tensor([ 3.6941, 14.0267, 7.6491, 0.2876, 0.1053, 0.0593], device='cuda:0')

Target Values: tensor([ 4.3998, 13.2723, 8.8386, 0.0000, 0.0000, 0.0000], device='cuda:0')

test loss from 2 : 2.1705121994018555

Output of network: tensor([-0.3319, 3.2579, 0.4167, 19.0765, 0.4973, 19.6196], device='cuda:0')

Target Values: tensor([ 0.0000, 0.0000, 0.0000, 18.8295, 0.0000, 20.9678], device='cuda:0')

test loss from 2 : 1.2943719625473022

Output of network: tensor([12.1859, 0.1206, 15.7926, 0.2739, 19.4362, 14.9697], device='cuda:0')

Target Values: tensor([14.3427, 0.0000, 17.3370, 0.0000, 20.0644, 15.4649], device='cuda:0')

test loss from 2 : 0.13206332921981812

Output of network: tensor([0.3959, 0.6233, 0.3100, 0.1394, 0.3556, 0.0713], device='cuda:0')

Target Values: tensor([0., 0., 0., 0., 0., 0.], device='cuda:0')

test loss from 2 : 3.9383468627929688

Output of network: tensor([13.4443, 12.5858, 0.9324, 0.1895, 12.6657, 15.4126], device='cuda:0')

Target Values: tensor([14.4635, 10.6369, 5.0428, 0.0000, 11.8949, 14.2867], device='cuda:0')

test loss from 2 : 0.39676594734191895

Output of network: tensor([18.7118, 20.0258, 0.1928, 0.5376, 0.2634, 0.2682], device='cuda:0')

Target Values: tensor([19.8845, 20.7593, 0.0000, 0.0000, 0.0000, 0.0000], device='cuda:0')

test loss from 2 : 3.0549635887145996

Output of network: tensor([20.0935, 16.0433, 22.4463, 17.6747, 18.6876, 9.3875], device='cuda:0')

Target Values: tensor([18.9949, 18.7465, 23.3597, 16.0360, 19.2645, 11.8295], device='cuda:0')

test loss from 2 : 2.89471435546875

Output of network: tensor([ 0.2088, 0.3084, 17.4175, 20.8230, 0.3547, 20.7121], device='cuda:0')

Target Values: tensor([ 0.0000, 0.0000, 17.7401, 22.7145, 0.0000, 24.3757], device='cuda:0')

test loss from 2 : 1.0634169578552246

Output of network: tensor([ 0.3739, 0.2140, 10.6979, 10.9014, 16.0060, 9.0411], device='cuda:0')

Target Values: tensor([ 0.0000, 0.0000, 10.0858, 11.6011, 18.1711, 9.8429], device='cuda:0')

test loss from 2 : 2.5807547569274902

Output of network: tensor([18.3377, 13.7769, 13.3636, 0.4251, 0.1412, 10.0467], device='cuda:0')

Target Values: tensor([21.1745, 16.2319, 14.0835, 0.0000, 0.0000, 10.8781], device='cuda:0')

test loss from 2 : 0.4612575173377991

Output of network: tensor([ 0.4614, 0.1534, 0.0569, 0.3176, 15.2926, 0.4172], device='cuda:0')

Target Values: tensor([ 0.0000, 0.0000, 0.0000, 0.0000, 16.7936, 0.0000], device='cuda:0')

test loss from 2 : 2.3644633293151855

Output of network: tensor([19.7421, 20.4787, 1.3007, 21.1315, 1.7100, 0.9317], device='cuda:0')

Target Values: tensor([22.5269, 19.5331, 0.0000, 21.1214, 3.6272, 0.5199], device='cuda:0')

test loss from 2 : 1.3190373182296753

Output of network: tensor([ 0.0170, 15.6214, 2.3943, 0.0411, 0.6338, 11.7667], device='cuda:0')

Target Values: tensor([ 0.0000, 15.2305, 0.0000, 0.0000, 1.1031, 13.1109], device='cuda:0')

test loss from 2 : 0.8600760698318481

Output of network: tensor([-2.0986e-01, -4.1312e-03, 4.6027e-01, 1.9671e+01, 6.7515e+00,

1.0293e+01], device='cuda:0')

Target Values: tensor([ 0.0000, 0.0000, 0.0000, 19.6663, 7.6137, 12.3331], device='cuda:0')

test loss from 2 : 2.819312572479248

Output of network: tensor([15.0368, 17.7535, 6.5994, 5.8354, 15.3402, 15.0024], device='cuda:0')

Target Values: tensor([14.8221, 18.9432, 8.0004, 2.6254, 13.7754, 14.1427], device='cuda:0')

test loss from 2 : 3.549764394760132

Output of network: tensor([ 0.1752, 0.3751, 6.0399, 16.7965, 20.4899, 0.3484], device='cuda:0')

Target Values: tensor([ 0.0000, 0.0000, 1.9803, 16.9454, 18.3678, 0.0000], device='cuda:0')

test loss from 2 : 7.917491436004639

Output of network: tensor([21.1587, 18.4735, 0.3179, 0.6314, 0.4586, 0.1949], device='cuda:0')

Target Values: tensor([27.9360, 19.3818, 0.0000, 0.0000, 0.0000, 0.0000], device='cuda:0')

test loss from 2 : 8.791810989379883

Output of network: tensor([ 0.2534, 14.7217, 19.5468, 0.1268, 2.8192, 0.2854], device='cuda:0')

Target Values: tensor([ 0.0000, 15.5011, 20.4770, 0.0000, 9.9688, 0.0000], device='cuda:0')

test loss from 2 : 9.440670013427734

Output of network: tensor([ 0.4628, 3.5288, 6.0298, 19.2700, 18.5249, 13.1745], device='cuda:0')

Target Values: tensor([ 0.0000, 10.6746, 7.2959, 20.6543, 19.4445, 14.1757], device='cuda:0')

test loss from 2 : 5.042895317077637

Output of network: tensor([ 0.9701, 15.3366, 0.5710, 0.6228, 18.9934, 0.0702], device='cuda:0')

Target Values: tensor([ 0.0000, 15.7448, 0.0000, 0.0000, 24.3254, 0.0000], device='cuda:0')

test loss from 2 : 7.20370626449585

Output of network: tensor([1.6494e+01, 3.2886e-03, 1.7829e+01, 6.1250e-01, 6.3368e-01, 3.1799e-02],

device='cuda:0')

Target Values: tensor([18.7963, 0.0000, 23.9237, 0.0000, 0.0000, 0.0000], device='cuda:0')

test loss from 2 : 0.688240647315979

Output of network: tensor([11.8756, 14.0059, 0.3017, 0.2507, 17.6185, 0.0845], device='cuda:0')

Target Values: tensor([10.1828, 13.6150, 0.0000, 0.0000, 18.5932, 0.0000], device='cuda:0')

test loss from 2 : 1.4430259466171265

Output of network: tensor([ 5.7505, 5.7983, 17.3317, 0.2993, 5.8880, 13.2913], device='cuda:0')

Target Values: tensor([ 4.7359, 3.2885, 18.4023, 0.0000, 5.6097, 13.4195], device='cuda:0')

test loss from 2 : 1.056850790977478

Output of network: tensor([16.0941, 23.8360, 0.2625, 0.3371, 0.1332, 10.9178], device='cuda:0')

Target Values: tensor([17.4434, 21.8155, 0.0000, 0.0000, 0.0000, 11.4054], device='cuda:0')

test loss from 2 : 7.30911922454834

Output of network: tensor([22.4170, 0.2998, 9.5347, 0.2543, 1.0182, 16.6675], device='cuda:0')

Target Values: tensor([21.5251, 0.0000, 10.1768, 0.0000, 6.4968, 13.1352], device='cuda:0')

test loss from 2 : 2.4604415893554688

Output of network: tensor([16.4540, 0.3154, 0.1285, 17.4666, 0.1152, 14.1843], device='cuda:0')

Target Values: tensor([18.4566, 0.0000, 0.0000, 14.5129, 0.0000, 12.8063], device='cuda:0')

test loss from 2 : 2.8321495056152344

Output of network: tensor([ 0.3539, 0.0549, 0.2384, 14.3336, 20.9878, 1.1019], device='cuda:0')

Target Values: tensor([ 0.0000, 0.0000, 0.0000, 12.9974, 24.7038, 0.0000], device='cuda:0')

test loss from 2 : 3.1305766105651855

Output of network: tensor([ 0.2278, 4.2172, 20.2712, 0.2940, 4.8528, 21.0793], device='cuda:0')

Target Values: tensor([ 0.0000, 5.1609, 16.6079, 0.0000, 6.6213, 22.1783], device='cuda:0')

test loss from 2 : 1.7546958923339844

Output of network: tensor([11.9444, 15.7456, 0.1440, 16.7355, 18.1026, 0.3889], device='cuda:0')

Target Values: tensor([13.4518, 16.5939, 0.0000, 19.4272, 18.4481, 0.0000], device='cuda:0')

test loss from 2 : 0.812576174736023

Output of network: tensor([0.5437, 0.1942, 0.1031, 0.0724, 4.4928, 0.1319], device='cuda:0')

Target Values: tensor([0.0000, 0.0000, 0.0000, 0.0000, 2.3693, 0.0000], device='cuda:0')

test loss from 2 : 33.919517517089844

Output of network: tensor([ 0.0924, 19.7426, 17.6099, 12.1277, 18.3385, 13.3476], device='cuda:0')

Target Values: tensor([ 0.0000, 20.1805, 3.5881, 14.3065, 19.7168, 13.5915], device='cuda:0')

test loss from 2 : 4.903104782104492

Output of network: tensor([ 0.1348, 0.2074, 0.3647, 0.3099, 7.0863, 18.8402], device='cuda:0')

Target Values: tensor([ 0.0000, 0.0000, 0.0000, 0.0000, 12.2403, 20.4418], device='cuda:0')

test loss from 2 : 0.8288480043411255

Output of network: tensor([ 0.1309, 0.2309, 0.5011, 17.5189, 9.4887, 0.0649], device='cuda:0')

Target Values: tensor([ 0.0000, 0.0000, 0.0000, 19.6488, 9.8214, 0.0000], device='cuda:0')

test loss from 2 : 1.16387140750885

Output of network: tensor([ 0.8881, 1.6883, 0.1045, -0.0551, 17.2271, 7.7779], device='cuda:0')

Target Values: tensor([ 0.0000, 2.0700, 0.0000, 0.0000, 19.3901, 8.9425], device='cuda:0')

test loss from 2 : 2.4099416732788086

Output of network: tensor([-0.0898, 3.5761, 0.3069, 0.1343, 0.2719, 20.3569], device='cuda:0')

Target Values: tensor([ 0.0000, 6.1773, 0.0000, 0.0000, 0.0000, 23.0953], device='cuda:0')

test loss from 2 : 0.4435112178325653

Output of network: tensor([18.4767, -0.0245, 11.9085, 13.4312, 0.1473, 0.0412], device='cuda:0')

Target Values: tensor([17.7220, 0.0000, 13.2554, 13.9345, 0.0000, 0.0000], device='cuda:0')

test loss from 2 : 2.46726131439209

Output of network: tensor([19.8522, 0.1554, 0.2612, 0.3200, 0.1287, 0.2555], device='cuda:0')

Target Values: tensor([23.6636, 0.0000, 0.0000, 0.0000, 0.0000, 0.0000], device='cuda:0')

test loss from 2 : 1.7880513668060303

Output of network: tensor([16.5307, 0.5926, 0.2178, 1.5058, 13.0050, 5.8257], device='cuda:0')

Target Values: tensor([18.8679, 0.0000, 0.0000, 1.8173, 15.0319, 6.6392], device='cuda:0')

test loss from 2 : 0.42488473653793335

Output of network: tensor([ 0.1483, 0.2235, 20.9159, 0.3561, 7.1677, 0.1404], device='cuda:0')

Target Values: tensor([ 0.0000, 0.0000, 19.3929, 0.0000, 7.2729, 0.0000], device='cuda:0')

test loss from 2 : 1.2753276824951172

Output of network: tensor([ 0.4431, 0.1255, 18.2992, 15.6795, 0.8152, 20.3847], device='cuda:0')

Target Values: tensor([ 0.0000, 0.0000, 18.3885, 15.6653, 0.0000, 17.7833], device='cuda:0')

test loss from 2 : 1.1034290790557861

Output of network: tensor([10.9662, 20.2752, 6.0258, 16.6317, 18.1673, 0.3291], device='cuda:0')

Target Values: tensor([10.3126, 21.5550, 5.4791, 17.0229, 20.1662, 0.0000], device='cuda:0')

test loss from 2 : 0.6239380836486816

Output of network: tensor([ 0.0527, 0.2058, 17.0210, 0.0944, 0.3135, 0.0747], device='cuda:0')

Target Values: tensor([ 0.0000, 0.0000, 15.1274, 0.0000, 0.0000, 0.0000], device='cuda:0')

test loss from 2 : 1.6585571765899658

Output of network: tensor([18.4251, 0.2543, 17.7898, 0.4743, 2.1859, -0.3954], device='cuda:0')

Target Values: tensor([19.5112, 0.0000, 14.9044, 0.0000, 2.1916, 0.0000], device='cuda:0')

test loss from 2 : 1.9536733627319336

Output of network: tensor([16.4510, 0.2114, 19.5746, 0.4717, 0.2244, 0.2724], device='cuda:0')

Target Values: tensor([15.6073, 0.0000, 22.8117, 0.0000, 0.0000, 0.7354], device='cuda:0')

test loss from 2 : 0.43141597509384155

Output of network: tensor([ 0.1978, 0.1643, 11.9839, 0.2889, 17.9632, 0.4181], device='cuda:0')

Target Values: tensor([ 0.0000, 0.0000, 12.8670, 0.0000, 19.1815, 0.0000], device='cuda:0')

test loss from 2 : 0.9361457824707031

Output of network: tensor([17.4757, 19.1244, 0.1161, 0.4603, 0.0856, 17.9760], device='cuda:0')

Target Values: tensor([19.6597, 18.3640, 0.0000, 0.0000, 0.0000, 18.1655], device='cuda:0')

test loss from 2 : 0.9351329803466797

Output of network: tensor([ 0.2230, -0.1395, 15.2666, 0.2065, 1.5114, 0.0956], device='cuda:0')

Target Values: tensor([ 0.0000, 0.0000, 17.5917, 0.0000, 1.2222, 0.0000], device='cuda:0')

test loss from 2 : 4.172155380249023

Output of network: tensor([ 0.2890, 16.0116, 0.3820, 19.1653, 0.2280, 7.2796], device='cuda:0')

Target Values: tensor([ 0.0000, 17.4917, 0.0000, 23.7614, 0.0000, 6.0808], device='cuda:0')

test loss from 2 : 0.9573053121566772

Output of network: tensor([17.4107, 0.3633, 19.7704, 0.3344, 16.6356, -0.0281], device='cuda:0')

Target Values: tensor([18.8700, 0.0000, 19.1024, 0.0000, 14.9258, 0.0000], device='cuda:0')

test loss from 2 : 1.644079566001892

Output of network: tensor([ 0.0538, -0.0216, 0.2422, 16.1963, 19.7554, 18.2421], device='cuda:0')

Target Values: tensor([ 0.0000, 0.0000, 0.0000, 17.3373, 21.3983, 20.6507], device='cuda:0')

test loss from 2 : 1.5220402479171753

Output of network: tensor([ 0.5745, 16.6831, 0.3359, 18.8952, 0.6762, 9.9561], device='cuda:0')

Target Values: tensor([ 0.0000, 15.4672, 0.0000, 20.9553, 0.0000, 11.5403], device='cuda:0')

test loss from 2 : 2.106778621673584

Output of network: tensor([ 0.5222, 13.7300, 0.1626, 0.7702, 22.7763, 7.7700], device='cuda:0')

Target Values: tensor([ 0.0000, 15.6925, 0.0000, 0.0000, 22.0260, 10.4781], device='cuda:0')

test loss from 2 : 1.3762534856796265

Output of network: tensor([19.3198, 6.9270, 0.1848, 15.7669, 2.6498, 0.4735], device='cuda:0')

Target Values: tensor([19.5412, 7.8425, 0.0000, 15.4661, 0.0000, 0.0000], device='cuda:0')

test loss from 2 : 4.843579292297363

Output of network: tensor([ 2.4973e-01, 6.8870e+00, 1.9267e+01, 3.7857e-01, -9.0768e-02,

3.0611e-03], device='cuda:0')

Target Values: tensor([ 0.0000, 6.9471, 13.8961, 0.0000, 0.0000, 0.0000], device='cuda:0')

test loss from 2 : 4.839157581329346

Output of network: tensor([10.2842, 6.6752, 0.4054, 0.7528, 0.0226, 0.1296], device='cuda:0')

Target Values: tensor([12.3979, 11.5556, 0.0000, 0.0000, 0.0000, 0.0000], device='cuda:0')

test loss from 2 : 16.53342056274414

Output of network: tensor([ 0.3318, 16.3696, 0.4534, -0.0350, 17.0280, 0.5619], device='cuda:0')

Target Values: tensor([ 0.0000, 6.5746, 0.0000, 0.0000, 15.4076, 0.0000], device='cuda:0')

test loss from 2 : 0.13014495372772217

Output of network: tensor([-0.3046, 0.2907, 0.2530, 17.7994, 13.8647, 0.1304], device='cuda:0')

Target Values: tensor([ 0.0000, 0.0000, 0.0000, 18.3941, 14.2757, 0.0000], device='cuda:0')

test loss from 2 : 2.212374687194824

Output of network: tensor([2.0058e+01, 7.8298e-02, 1.7368e+00, 1.7936e-02, 1.2150e+00, 5.5440e-01],

device='cuda:0')

Target Values: tensor([17.4070, 0.0000, 0.0000, 0.0000, 2.9222, 0.0000], device='cuda:0')

test loss from 2 : 3.182581663131714

Output of network: tensor([7.5334, 0.2260, 7.2263, 0.4194, 0.1597, 0.3802], device='cuda:0')

Target Values: tensor([ 8.8202, 0.1345, 11.3597, 0.0000, 0.0000, 0.0000], device='cuda:0')

test loss from 2 : 27.475446701049805

Output of network: tensor([1.9935e+01, 1.8300e+01, 1.2281e+01, 8.4152e+00, 1.1969e-02, 2.4881e+00],

device='cuda:0')

Target Values: tensor([19.8846, 18.5061, 11.9150, 20.7098, 0.0000, 6.1646], device='cuda:0')

test loss from 2 : 1.308887243270874

Output of network: tensor([ 1.2607e+00, 2.2656e+00, -1.2273e-03, 9.6005e+00, 6.1141e-01,

2.0649e+00], device='cuda:0')

Target Values: tensor([0.0000, 0.0000, 0.0000, 9.1633, 0.0000, 2.8173], device='cuda:0')

test loss from 2 : 0.37609943747520447

Output of network: tensor([ 0.2856, 0.5386, 0.5521, 25.3633, 6.8039, 12.3635], device='cuda:0')

Target Values: tensor([ 0.0000, 0.0000, 0.0000, 24.6434, 5.9621, 11.7690], device='cuda:0')

test loss from 2 : 4.901699066162109

Output of network: tensor([ 8.5058, 18.0079, 22.5996, 17.7702, 16.0796, 0.4120], device='cuda:0')

Target Values: tensor([ 9.5560, 15.6499, 22.7946, 16.6624, 20.6961, 0.0000], device='cuda:0')

test loss from 2 : 8.987131118774414

Output of network: tensor([20.1818, 18.3005, 0.1884, 0.2840, 1.7362, 2.5642], device='cuda:0')

Target Values: tensor([20.3526, 21.2184, 0.0000, 0.0000, 3.2510, 9.1193], device='cuda:0')

test loss from 2 : 7.5261759757995605

Output of network: tensor([ 0.0963, 0.3692, 0.4013, 4.3300, 5.8489, 18.7755], device='cuda:0')

Target Values: tensor([ 0.0000, 0.0000, 0.0000, 10.4305, 5.9028, 16.0131], device='cuda:0')

test loss from 2 : 1.9980872869491577

Output of network: tensor([ 0.0367, 11.0869, 19.4922, -0.2490, -0.2388, 11.2552], device='cuda:0')

Target Values: tensor([ 0.0000, 11.5861, 22.8846, 0.0000, 0.0000, 11.5883], device='cuda:0')

test loss from 2 : 5.545897483825684

Output of network: tensor([ 0.1298, 2.3251, 14.8995, 5.3472, 20.9656, 15.9691], device='cuda:0')

Target Values: tensor([ 0.0000, 1.1125, 10.9977, 8.7407, 22.2746, 14.1430], device='cuda:0')

test loss from 2 : 0.18813267350196838

Output of network: tensor([ 0.3128, 0.2732, 15.3757, 0.0883, 0.2293, -0.1265], device='cuda:0')

Target Values: tensor([ 0.0000, 0.0000, 16.3137, 0.0000, 0.0000, 0.0000], device='cuda:0')

test loss from 2 : 1.9479072093963623

Output of network: tensor([ 0.2212, 5.8742, 0.2422, 20.9557, 0.3100, 0.3803], device='cuda:0')

Target Values: tensor([ 0.0000, 9.2158, 0.0000, 20.5400, 0.0000, 0.0000], device='cuda:0')

test loss from 2 : 2.0466079711914062

Output of network: tensor([ 0.1600, 0.6160, 15.0700, 1.9403, 0.1326, 21.3453], device='cuda:0')

Target Values: tensor([ 0.0000, 0.0000, 11.7601, 2.1804, 0.0000, 22.2639], device='cuda:0')

test loss from 2 : 3.6015357971191406

Output of network: tensor([ 0.1172, 22.0545, 10.7279, 0.2727, 19.8704, 11.7177], device='cuda:0')

Target Values: tensor([ 0.0000, 22.7679, 14.6785, 0.0000, 21.3382, 13.5206], device='cuda:0')

test loss from 2 : 0.1056654155254364

Output of network: tensor([ 1.9875e+01, 4.8259e-02, 8.1702e-02, 9.1715e-02, -1.7265e-02,

1.6489e+01], device='cuda:0')

Target Values: tensor([19.7508, 0.3677, 0.0000, 0.0000, 0.0000, 15.7806], device='cuda:0')

test loss from 2 : 7.637406826019287

Output of network: tensor([-3.5923e-03, 2.7722e+00, 2.3608e+01, 2.0034e+01, 4.5920e-01,

1.5839e+00], device='cuda:0')

Target Values: tensor([ 0.0000, 7.9694, 27.2239, 17.8722, 0.0000, 0.6605], device='cuda:0')

test loss from 2 : 3.869039535522461

Output of network: tensor([ 0.4341, 0.1780, 23.3923, 19.6492, 0.4947, 17.3537], device='cuda:0')

Target Values: tensor([ 0.0000, 0.0000, 19.7239, 21.6872, 0.0000, 15.0867], device='cuda:0')

test loss from 2 : 1.6751513481140137

Output of network: tensor([ 0.6072, 0.1859, 6.8926, -0.0238, 4.7758, 16.3030], device='cuda:0')

Target Values: tensor([ 0.0000, 0.3266, 7.0908, 0.0000, 3.1028, 13.6908], device='cuda:0')

test loss from 2 : 1.8701127767562866

Output of network: tensor([ 0.1628, 0.1579, 16.3873, 14.4734, 11.9079, 1.8510], device='cuda:0')

Target Values: tensor([ 0.0000, 0.0000, 13.2001, 15.1508, 12.2286, 1.1807], device='cuda:0')

test loss from 2 : 3.4548373222351074

Output of network: tensor([14.0901, 0.3788, 18.7210, 16.6498, 19.5998, 0.1984], device='cuda:0')

Target Values: tensor([14.5722, 0.0000, 23.1386, 17.4657, 19.2361, 0.0000], device='cuda:0')

test loss from 2 : 1.305375099182129

Output of network: tensor([ 2.4530, 0.6619, 1.3985, 14.6724, 2.9973, 18.6963], device='cuda:0')

Target Values: tensor([ 1.8804, 0.0000, 0.0851, 13.8669, 0.8579, 19.0360], device='cuda:0')

test loss from 2 : 1.5955803394317627

Output of network: tensor([18.4022, 18.9056, -0.0535, 0.4461, 10.8257, 3.3271], device='cuda:0')

Target Values: tensor([19.0496, 17.0373, 0.0000, 0.0000, 12.9663, 2.3891], device='cuda:0')

test loss from 2 : 1.0907280445098877

Output of network: tensor([1.7895e+00, 4.8075e+00, 7.6881e-02, 4.1217e-03, 3.2510e-01, 3.0022e+00],

device='cuda:0')

Target Values: tensor([0.0000, 6.0971, 0.0000, 0.0000, 0.0000, 1.7503], device='cuda:0')

test loss from 2 : 0.05185879021883011

Output of network: tensor([ 0.3069, 0.3174, 0.2014, 0.1475, 0.2310, 11.9379], device='cuda:0')

Target Values: tensor([ 0.0000, 0.0000, 0.0000, 0.0000, 0.0000, 11.9605], device='cuda:0')

test loss from 2 : 2.3593833446502686

Output of network: tensor([11.2824, 0.2009, 0.2310, 20.2922, 0.0559, 0.4599], device='cuda:0')

Target Values: tensor([10.1077, 0.0000, 0.0000, 23.8233, 0.0000, 0.0000], device='cuda:0')

test loss from 2 : 0.5913498401641846

Output of network: tensor([ 0.1719, 1.0504, -0.1022, 4.5788, 14.2412, 0.1228], device='cuda:0')

Target Values: tensor([ 0.0000, 0.0000, 0.0000, 3.3295, 15.1517, 0.0000], device='cuda:0')

test loss from 2 : 0.16483521461486816

Output of network: tensor([ 3.5711, 0.3286, 0.3929, 0.5276, -0.0637, 0.4128], device='cuda:0')

Target Values: tensor([3.0478, 0.0000, 0.0000, 0.0000, 0.0000, 0.0000], device='cuda:0')

test loss from 2 : 1.650935411453247

Output of network: tensor([ 0.2578, 0.4148, 16.8360, 0.1585, 0.1875, 0.2108], device='cuda:0')

Target Values: tensor([ 0.0000, 0.0000, 13.7437, 0.0000, 0.0000, 0.0000], device='cuda:0')

test loss from 2 : 1.452366828918457

Output of network: tensor([ 0.3543, 13.9896, -0.2136, 8.2713, 2.3146, 0.4416], device='cuda:0')

Target Values: tensor([ 0.0000, 13.6278, 0.0000, 11.0490, 1.6067, 0.0000], device='cuda:0')

test loss from 2 : 2.0740723609924316

Output of network: tensor([ 0.1081, 13.5899, 7.6419, 17.8484, 0.3081, 0.2368], device='cuda:0')

Target Values: tensor([ 0.0000, 13.5220, 7.8180, 21.3478, 0.0000, 0.0000], device='cuda:0')

test loss from 2 : 0.12787654995918274

Output of network: tensor([18.9585, 0.2094, 0.7699, 0.1644, 0.3012, 0.1073], device='cuda:0')

Target Values: tensor([18.9217, 0.0000, 0.0000, 0.0000, 0.0000, 0.0000], device='cuda:0')

test loss from 2 : 9.232051849365234

Output of network: tensor([ 0.5076, 0.2173, 23.6505, 13.6097, 9.6760, 1.7888], device='cuda:0')

Target Values: tensor([ 0.0000, 0.0000, 23.5642, 14.0163, 9.5457, 9.1981], device='cuda:0')

test loss from 2 : 1.0584790706634521

Output of network: tensor([1.4475e+01, 1.9997e+01, 6.2633e-04, 2.4590e+01, 2.6123e-01, 1.4193e+01],

device='cuda:0')

Target Values: tensor([15.5058, 21.2659, 0.0000, 24.3633, 0.0000, 16.0792], device='cuda:0')

test loss from 2 : 5.6876630783081055

Output of network: tensor([14.2326, 14.1807, 16.6038, 17.8692, 0.2105, 0.0189], device='cuda:0')

Target Values: tensor([14.0732, 14.6110, 16.3616, 23.6840, 0.0000, 0.0000], device='cuda:0')

test loss from 2 : 1.3190284967422485

Output of network: tensor([14.5918, 0.1317, 15.2548, 0.0827, 17.8364, 0.1450], device='cuda:0')

Target Values: tensor([16.2335, 0.0000, 14.3204, 0.0000, 19.9102, 0.0000], device='cuda:0')

test loss from 2 : 0.22665539383888245

Output of network: tensor([0.3535, 0.4071, 0.0065, 0.0689, 1.0305, 0.3637], device='cuda:0')

Target Values: tensor([0.0000, 0.2174, 0.0000, 0.0000, 0.0000, 0.0000], device='cuda:0')

test loss from 2 : 4.299894332885742

Output of network: tensor([ 4.0281, 0.4835, 0.4140, 14.0746, 3.3407, 0.1252], device='cuda:0')

Target Values: tensor([ 7.9722, 0.0000, 0.0000, 14.8562, 6.3759, 0.0000], device='cuda:0')

test loss from 2 : 6.072105407714844

Output of network: tensor([14.8519, 16.9159, 8.9845, 6.2480, 18.5102, 21.4170], device='cuda:0')

Target Values: tensor([15.8171, 17.8838, 11.0137, 10.2756, 21.7340, 23.3748], device='cuda:0')

test loss from 2 : 2.0023207664489746

Output of network: tensor([ 0.3501, 0.2142, 19.3336, 0.1566, 0.3119, 16.7544], device='cuda:0')

Target Values: tensor([ 0.0000, 0.0000, 20.2692, 0.0000, 0.0000, 20.0481], device='cuda:0')

test loss from 2 : 1.7347005605697632

Output of network: tensor([ 0.4058, 17.2801, 0.1240, 11.8171, 6.7863, 0.1912], device='cuda:0')

Target Values: tensor([ 0.0000, 17.8545, 0.0000, 12.4308, 9.8661, 0.0000], device='cuda:0')

test loss from 2 : 1.1353240013122559

Output of network: tensor([ 0.2042, 21.2722, 0.3549, 19.0089, 0.0266, 0.3744], device='cuda:0')

Target Values: tensor([ 0.0000, 18.7653, 0.0000, 18.5413, 0.0000, 0.0000], device='cuda:0')

test loss from 2 : 5.8899946212768555

Output of network: tensor([ 4.9235, 16.3206, 16.3874, 0.1996, 0.1866, 0.2935], device='cuda:0')

Target Values: tensor([10.4686, 15.8498, 14.3358, 0.0000, 0.0000, 0.0000], device='cuda:0')

test loss from 2 : 3.301757574081421

Output of network: tensor([13.7548, 0.3767, 0.2864, 14.7124, 0.4874, 0.1294], device='cuda:0')

Target Values: tensor([12.6179, 0.0000, 0.0000, 18.9597, 0.0000, 0.0000], device='cuda:0')

test loss from 2 : 1.6843093633651733

Output of network: tensor([ 0.2714, 0.2277, 17.5985, 21.5330, 12.9404, 0.1982], device='cuda:0')

Target Values: tensor([ 0.0000, 0.0000, 15.4900, 23.7908, 12.3098, 0.0000], device='cuda:0')

test loss from 2 : 0.08599869906902313

Output of network: tensor([16.8955, 0.2300, 0.9360, 0.3343, 16.4266, -0.0448], device='cuda:0')

Target Values: tensor([17.3390, 0.0000, 1.1079, 0.0000, 16.0758, 0.0000], device='cuda:0')

test loss from 2 : 2.5144546031951904

Output of network: tensor([ 0.0561, 7.3344, 14.5080, 0.1263, 22.5504, 22.6565], device='cuda:0')

Target Values: tensor([ 0.0000, 8.6519, 14.7898, 0.0000, 19.1907, 21.2549], device='cuda:0')

test loss from 2 : 2.1752004623413086

Output of network: tensor([ 0.0876, 15.2093, 14.1243, 11.1493, 6.6351, 2.8334], device='cuda:0')

Target Values: tensor([ 0.0000, 14.7742, 14.6368, 11.6408, 8.1136, 6.0215], device='cuda:0')

test loss from 2 : 0.5572848320007324

Output of network: tensor([ 0.9398, -0.0121, 2.7658, 0.0605, 0.0560, 0.2809], device='cuda:0')

Target Values: tensor([0.0000, 0.0000, 1.2248, 0.0000, 0.0000, 0.0000], device='cuda:0')

test loss from 2 : 1.3430051803588867

Output of network: tensor([17.3019, 0.1861, 0.0467, 16.3787, 17.6156, 0.1507], device='cuda:0')

Target Values: tensor([18.3707, 0.0000, 0.0000, 14.5103, 19.4501, 0.0000], device='cuda:0')

test loss from 2 : 2.791837215423584

Output of network: tensor([21.6981, 3.6998, 0.1846, 14.5444, -0.2311, 0.2998], device='cuda:0')

Target Values: tensor([18.6515, 2.5796, 0.0000, 16.9987, 0.0282, 0.0000], device='cuda:0')

test loss from 2 : 4.48626708984375

Output of network: tensor([6.7153e+00, 6.9903e-01, 1.2906e+01, 2.1650e+01, 8.9140e-03, 2.1780e+01],

device='cuda:0')

Target Values: tensor([ 5.4026, 0.0000, 12.7364, 21.5613, 0.0000, 26.7463], device='cuda:0')

test loss from 2 : 1.670142412185669

Output of network: tensor([ 0.6446, 0.2263, 0.4116, 21.9900, 0.0394, 18.3655], device='cuda:0')

Target Values: tensor([ 0.0000, 0.0000, 0.0000, 18.9269, 0.0000, 18.3752], device='cuda:0')

test loss from 2 : 0.5525853633880615

Output of network: tensor([-0.2641, 13.0566, 21.0060, 0.0473, 0.4201, 0.4043], device='cuda:0')

Target Values: tensor([ 0.0000, 11.6283, 21.9352, 0.0000, 0.0000, 0.0000], device='cuda:0')

test loss from 2 : 1.673864722251892

Output of network: tensor([ 0.2446, 0.2318, 0.8345, 14.1231, -0.2504, 19.8837], device='cuda:0')

Target Values: tensor([ 0.0000, 0.0000, 1.7250, 13.2539, 0.0000, 22.7679], device='cuda:0')

test loss from 2 : 4.6474785804748535

Output of network: tensor([ 5.3865, 16.6828, 0.1612, 1.1564, 0.8688, 0.0395], device='cuda:0')

Target Values: tensor([ 6.5961, 21.6342, 0.0000, 2.2158, 0.0000, 0.0000], device='cuda:0')

test loss from 2 : 1.8630201816558838

Output of network: tensor([ 8.6214, 15.9858, 0.0631, 0.0668, 0.3065, 20.0280], device='cuda:0')

Target Values: tensor([10.3245, 17.1066, 0.0000, 0.0000, 0.0000, 17.3976], device='cuda:0')

test loss from 2 : 1.1755473613739014

Output of network: tensor([1.3366e+01, 9.1719e-02, 1.7212e+01, 6.9741e-03, 1.5238e+01, 1.9965e+01],

device='cuda:0')

Target Values: tensor([14.0668, 0.0000, 18.8921, 0.0000, 17.1698, 19.9747], device='cuda:0')

test loss from 2 : 0.9049088358879089

Output of network: tensor([1.0847, 2.2250, 0.2421, 0.2374, 0.3931, 0.3457], device='cuda:0')

Target Values: tensor([2.6149, 0.5822, 0.0000, 0.0000, 0.0000, 0.0000], device='cuda:0')

test loss from 2 : 0.01544203795492649

Output of network: tensor([0.1076, 6.5079], device='cuda:0')

Target Values: tensor([0.0000, 6.3689], device='cuda:0')

Test Loss (mean squared error): 0.514061

Time: 28.22746777534485

Targets: [9.866104125976562, 22.977676391601562, 0.0, 14.142748832702637, 7.295877456665039, 0.0, 19.236083984375, 0.0, 0.0, 11.013652801513672, 8.651888847351074, 0.0, 0.0, 7.972157001495361, 11.466023445129395, 21.63424301147461, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 21.174467086791992, 0.0, 0.0, 17.443439483642578, 0.0, 18.59319305419922, 15.204572677612305, 0.0, 4.735873699188232, 7.818046569824219, 0.0, 0.0, 15.433259963989258, 13.27225399017334, 0.0, 0.0, 0.0, 13.522049903869629, 23.92368507385254, 15.69252872467041, 0.0, 0.0, 18.943193435668945, 22.025985717773438, 0.0, 0.0, 11.628321647644043, 0.0, 0.0, 12.430830001831055, 0.0, 15.501093864440918, 1.859238862991333, 0.0, 0.0, 0.0, 19.71682357788086, 0.0, 22.884557723999023, 22.811660766601562, 15.1273775100708, 11.405380249023438, 0.0, 13.896139144897461, 0.0, 2.5795822143554688, 2.625436782836914, 12.333077430725098, 19.26454734802246, 26.746292114257812, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 16.036012649536133, 24.363311767578125, 0.0, 0.0, 11.54029369354248, 11.76903247833252, 0.0, 0.0, 0.0, 0.0, 20.539981842041016, 6.621281623840332, 0.0, 16.44261360168457, 0.0, 2.06996488571167, 0.0, 19.190662384033203, 22.767900466918945, 0.0, 10.085797309875488, 0.0, 8.942506790161133, 20.352598190307617, 15.466058731079102, 0.0, 13.934476852416992, 0.0, 18.171144485473633, 1.4610755443572998, 6.574602127075195, 0.0, 2.3890674114227295, 18.402334213256836, 11.555606842041016, 22.714496612548828, 24.57651710510254, 10.878132820129395, 1.2222232818603516, 0.0, 18.456575393676758, 12.736432075500488, 14.774150848388672, 0.0, 0.0, 21.218441009521484, 0.5821780562400818, 22.526947021484375, 16.793601989746094, 2.3693413734436035, 15.086739540100098, 16.23348045349121, 0.0, 0.0, 23.374767303466797, 14.678478240966797, 0.0, 0.0, 0.0, 16.607948303222656, 14.083450317382812, 24.643442153930664, 0.0, 0.0, 24.325410842895508, 14.904390335083008, 0.0, 2.297616481781006, 8.113607406616211, 0.0, 15.60727596282959, 0.0, 3.04776930809021, 0.0, 1.1807222366333008, 0.0, 0.0, 22.2639217376709, 0.0, 0.0, 6.177317142486572, 0.0, 0.0, 0.0, 17.40695571899414, 0.0, 15.407561302185059, 24.375703811645508, 0.0, 21.12139892578125, 0.0, 0.0, 10.997694969177246, 0.0, 12.24028491973877, 15.649932861328125, 20.04813003540039, 15.849812507629395, 6.0808424949646, 0.0, 23.138643264770508, 20.441814422607422, 18.65153694152832, 0.0, 0.0, 8.820245742797852, 1.7502912282943726, 0.0, 12.25747013092041, 0.0, 17.037290573120117, 2.180405378341675, 0.0, 17.78331756591797, 16.94544792175293, 23.79081916809082, 0.0, 6.097090244293213, 16.075786590576172, 0.0, 3.2884769439697266, 0.0, 0.0, 0.0, 17.59168815612793, 0.0, 14.073225975036621, 15.817105293273926, 0.0, 12.997354507446289, 0.0, 17.88379669189453, 0.0, 0.0, 13.615021705627441, 0.0, 0.0, 11.601103782653809, 0.0, 0.0, 0.0, 0.0, 0.08514683693647385, 13.591468811035156, 10.312580108642578, 5.609745502471924, 0.0, 0.0, 1.9803001880645752, 0.0, 0.0, 18.375213623046875, 0.0, 18.367752075195312, 0.0, 0.0, 11.588298797607422, 9.198092460632324, 18.796310424804688, 0.0, 0.0, 1.8172565698623657, 0.0, 0.0, 0.0, 6.9471001625061035, 10.478062629699707, 0.0, 15.03194808959961, 0.0, 0.0, 10.67455768585205, 0.0, 13.135185241699219, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 19.570619583129883, 0.0, 0.0, 10.468619346618652, 7.842472553253174, 16.313730239868164, 18.921693801879883, 0.0, 11.760065078735352, 19.035978317260742, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 11.914996147155762, 0.0, 0.0, 0.7353914976119995, 0.0, 19.910184860229492, 20.47702980041504, 0.0, 8.00041389465332, 14.306517601013184, 0.0, 0.0, 14.275689125061035, 6.6392316818237305, 3.3294715881347656, 12.228581428527832, 0.0, 5.1608500480651855, 13.419478416442871, 0.0, 5.042791843414307, 0.0, 11.960472106933594, 19.450124740600586, 19.39009666442871, 17.36725616455078, 0.0, 0.0, 20.709754943847656, 18.394123077392578, 0.0, 14.9258451461792, 0.0, 18.87002182006836, 0.857897937297821, 18.99491310119629, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 7.090791702270508, 0.0, 0.0, 9.821367263793945, 0.0, 0.0, 19.51123046875, 0.0, 15.74480152130127, 19.533130645751953, 0.0, 0.0, 0.0, 21.815473556518555, 0.0, 0.0, 0.0, 13.627753257751465, 18.959674835205078, 0.0, 19.723941802978516, 0.0, 20.650678634643555, 23.823253631591797, 0.0, 0.0, 0.0, 8.617387771606445, 0.0, 5.402552127838135, 0.0, 17.46569061279297, 14.342707633972168, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.6605277061462402, 0.0, 0.0, 15.467191696166992, 0.0, 21.56132698059082, 0.0, 21.338197708129883, 0.0, 11.858626365661621, 27.22394561767578, 13.520562171936035, 0.0, 12.867035865783691, 0.0, 1.6067439317703247, 12.617884635925293, 0.0, 16.361629486083984, 15.464924812316895, 0.0, 6.368930339813232, 15.15165901184082, 0.0, 0.36769574880599976, 0.0, 0.32664617896080017, 0.0, 0.0, 22.178255081176758, 14.016326904296875, 0.0, 0.0, 0.0, 18.506120681762695, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 3.627185583114624, 2.817305326461792, 0.0, 0.0, 18.765283584594727, 15.318059921264648, 19.541194915771484, 17.338985443115234, 15.150772094726562, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 14.46354866027832, 0.0, 23.66364288330078, 18.829517364501953, 2.1916134357452393, 20.696104049682617, 9.545746803283691, 0.0, 0.0, 23.76136016845703, 0.0, 21.265918731689453, 0.0, 19.974681854248047, 12.309794425964355, 17.73993492126465, 0.0, 0.0, 0.0, 14.822135925292969, 0.0, 15.490023612976074, 0.0, 9.842852592468262, 17.169801712036133, 0.0, 0.0, 14.636805534362793, 0.0, 13.690814018249512, 0.0, 13.775367736816406, 0.0, 19.666250228881836, 0.0, 0.0, 21.525131225585938, 10.636947631835938, 0.0, 0.0, 0.0, 0.0, 0.0, 9.215766906738281, 19.18148422241211, 0.0, 10.107707023620605, 0.0, 23.359731674194336, 24.703792572021484, 7.613690376281738, 0.0, 0.0, 0.0, 1.1079185009002686, 0.0, 0.0, 14.789844512939453, 15.780599594116211, 0.0, 0.0, 21.733985900878906, 0.0, 0.0281941220164299, 0.0, 0.0, 10.430497169494629, 6.021487712860107, 15.230510711669922, 6.596110820770264, 0.0, 3.2509844303131104, 0.0, 0.0, 20.967750549316406, 19.6488037109375, 0.0, 0.0, 17.87222671508789, 11.077375411987305, 2.6149189472198486, 0.0, 0.0, 10.182781219482422, 14.819345474243164, 0.0, 6.496824741363525, 0.0, 0.3449941575527191, 0.0, 12.630643844604492, 0.0, 23.68404197692871, 18.892080307006836, 0.0, 21.935199737548828, 0.0, 0.0, 20.269193649291992, 0.0, 27.936006546020508, 0.0, 22.3455753326416, 0.0, 0.0, 4.399764060974121, 0.0, 0.13452482223510742, 0.0, 0.0, 16.231895446777344, 0.0, 0.0, 0.0, 0.0, 18.165496826171875, 0.0, 0.0, 0.0, 1.1030871868133545, 0.0, 13.45177936553955, 5.962132930755615, 0.0, 0.0, 14.856195449829102, 0.0, 0.0, 17.854520797729492, 0.0, 14.51292610168457, 14.572157859802246, 17.337299346923828, 0.0, 13.110859870910645, 0.0, 0.0, 0.0, 0.0, 0.0, 7.798985481262207, 1.8803706169128418, 8.712843894958496, 21.68724250793457, 0.0, 0.0, 0.0, 2.215837001800537, 17.74005126953125, 0.0, 16.07920265197754, 18.5412540435791, 6.375881195068359, 0.0, 0.0, 11.829512596130371, 18.86787986755371, 0.0, 2.9221510887145996, 22.9768123626709, 0.0, 0.0, 19.751157760620117, 0.0, 23.095304489135742, 14.06679916381836, 0.0, 0.4023125171661377, 0.0, 0.0, 0.0, 0.0, 18.3640079498291, 0.0, 0.0, 14.14299488067627, 0.2174425572156906, 21.398296356201172, 0.0, 0.0, 0.0, 6.164560317993164, 0.0, 14.175748825073242, 0.0, 3.5880966186523438, 0.0, 0.0, 0.0, 17.106582641601562, 7.969419002532959, 20.166170120239258, 20.064373016357422, 10.275554656982422, 0.0, 12.966277122497559, 0.0, 17.336957931518555, 0.0, 7.272918224334717, 18.851245880126953, 22.767925262451172, 9.555983543395996, 13.866859436035156, 0.0, 19.38179588317871, 0.0, 21.347824096679688, 0.0, 0.0, 0.0, 0.0, 5.902778148651123, 0.0, 20.955289840698242, 0.0, 13.253905296325684, 11.049015045166016, 0.0, 8.838618278503418, 0.0, 0.0, 9.597816467285156, 16.13922691345215, 19.392868041992188, 0.0, 0.0, 9.163257598876953, 0.0, 10.176843643188477, 5.479125499725342, 19.884492874145508, 8.740735054016113, 12.397894859313965, 16.593873977661133, 21.55499839782715, 17.022924423217773, 22.274641036987305, 1.224800705909729, 0.0, 18.44805908203125, 0.0, 16.998693466186523, 0.0, 9.11927318572998, 11.359721183776855, 19.10235595703125, 1.724970817565918, 0.0, 0.0, 16.662363052368164, 0.0, 14.611010551452637, 0.0, 0.0, 9.968778610229492, 14.510305404663086, 0.0, 20.180463790893555, 0.0, 18.370656967163086, 0.0, 12.806344032287598, 0.0, 13.74370002746582, 0.0, 11.640827178955078, 21.254863739013672, 0.0, 0.0, 14.320371627807617, 13.200129508972168, 10.324482917785645, 0.0, 0.0, 0.0, 0.0, 22.794601440429688, 18.926856994628906, 11.89486026763916, 19.42715072631836, 14.335803985595703, 0.0, 0.0, 15.505812644958496, 0.0, 18.388486862182617, 14.286742210388184, 18.715280532836914, 0.0, 0.0, 0.0, 2.5994906425476074, 0.5198981165885925, 0.0, 0.0, 23.5642147064209, 17.397598266601562, 17.721965789794922, 0.0, 0.0, 3.8097116947174072, 15.665297508239746, 19.750768661499023, 0.0, 0.0, 3.1028172969818115, 16.013084411621094, 0.0, 0.0, 19.659692764282227, 20.65425682067871, 0.0, 0.0, 19.049564361572266, 19.44452667236328, 0.0, 0.0, 0.0, 17.491653442382812, 0.0, 0.0, 0.0, 18.746498107910156, 20.759294509887695, 0.0, 1.11253023147583, 0.0, 0.0, 13.255441665649414, 19.88457489013672, 11.586135864257812]

Outputs [6.786327362060547, 22.045621871948242, 0.20087647438049316, 15.002420425415039, 6.029804229736328, 0.2997746467590332, 19.599834442138672, 0.06312799453735352, 0.1205894947052002, 8.984515190124512, 7.3343658447265625, 0.13187921047210693, 0.2624778747558594, 4.028119087219238, 11.121476173400879, 16.682781219482422, 0.49473071098327637, 0.07688093185424805, 0.0593111515045166, 0.18609189987182617, 0.1347663402557373, 0.1884070634841919, 18.33770179748535, 0.3637247085571289, 0.41942644119262695, 16.0941162109375, 0.15336370468139648, 17.61847496032715, 16.860816955566406, 0.11612939834594727, 5.75047492980957, 7.641944885253906, 0.1252460479736328, 0.017935991287231445, 16.253814697265625, 14.026719093322754, 0.08269548416137695, 0.4180716276168823, 0.19493865966796875, 13.589875221252441, 17.8292179107666, 13.729972839355469, 0.5076390504837036, 0.4592036008834839, 17.75353240966797, 22.776254653930664, 0.3012136220932007, 0.05586123466491699, 13.056629180908203, 0.4115719795227051, 0.13088703155517578, 11.817146301269531, 0.15068507194519043, 14.721705436706543, 0.6552274823188782, 1.260721206665039, 0.084464430809021, 0.5375823378562927, 18.33846664428711, 2.3942623138427734, 19.492212295532227, 19.574634552001953, 17.020977020263672, 10.917798042297363, 0.14501285552978516, 19.266794204711914, 0.2718966007232666, 3.699814558029175, 5.835428237915039, 10.29317569732666, 18.687623977661133, 21.77952766418457, 0.0856478214263916, 0.3068861961364746, 0.3767338991165161, 0.2875717878341675, 0.4053802490234375, 0.8688058853149414, 0.35433804988861084, 0.28555262088775635, 0.29976892471313477, 0.30167245864868164, 0.35613691806793213, 17.674686431884766, 24.590335845947266, 0.06677675247192383, 0.31189191341400146, 9.956063270568848, 12.363495826721191, 0.3889172077178955, 1.1018733978271484, 0.2889714241027832, 0.35354483127593994, 20.955684661865234, 4.852807998657227, 0.20881831645965576, 14.255102157592773, 0.46138477325439453, 1.6883301734924316, 0.31744909286499023, 22.550371170043945, 19.88372230529785, 3.2578625679016113, 10.697885513305664, 0.05658125877380371, 7.777921676635742, 20.181808471679688, 15.766878128051758, 0.2173480987548828, 13.43122386932373, 0.07129216194152832, 16.00601577758789, 2.6016359329223633, 16.36960220336914, 0.12962913513183594, 3.32712459564209, 17.331695556640625, 6.675163269042969, 20.82295799255371, 24.52115821838379, 10.0466890335083, 1.5113990306854248, 0.3548734188079834, 16.453964233398438, 12.906384468078613, 15.209314346313477, 0.23742365837097168, 0.03951084613800049, 18.3005313873291, 2.225003242492676, 19.742069244384766, 15.292593955993652, 4.492753982543945, 17.353662490844727, 14.591803550720215, 0.19115257263183594, 0.41277384757995605, 21.417022705078125, 10.72786808013916, 0.17194247245788574, 0.38025856018066406, 0.28541696071624756, 20.27120590209961, 13.3635892868042, 25.36328887939453, 0.1596972942352295, 0.09995782375335693, 18.993356704711914, 17.7898006439209, 0.30992448329925537, 0.5956964492797852, 6.6351165771484375, 0.13759636878967285, 16.45099639892578, 1.7895081043243408, 3.571054220199585, 0.9701278209686279, 1.8509631156921387, -0.3318636417388916, 0.08830595016479492, 21.345298767089844, 0.312846302986145, 0.22927260398864746, 3.57608962059021, 0.37856602668762207, 0.40129148960113525, 0.10305571556091309, 20.058324813842773, 0.21078729629516602, 17.027999877929688, 20.712125778198242, 0.016958951950073242, 21.1314640045166, 0.06045365333557129, 0.6446444392204285, 14.899452209472656, 0.5276166200637817, 7.086346626281738, 18.00788688659668, 16.754446029663086, 16.320552825927734, 7.279632568359375, 0.20577120780944824, 18.72097396850586, 18.840166091918945, 21.69808006286621, 0.06493580341339111, 0.6618502736091614, 7.533363342285156, 3.002211093902588, 0.056873440742492676, 15.183107376098633, 0.13320279121398926, 18.905616760253906, 1.940300464630127, 0.35010552406311035, 20.38470458984375, 16.796537399291992, 21.533029556274414, 0.3069162368774414, 4.807474613189697, 16.426591873168945, 0.31758224964141846, 5.798267364501953, -0.012076616287231445, 0.3929107189178467, 0.12851440906524658, 15.266566276550293, 0.3317558765411377, 14.232614517211914, 14.851926803588867, -0.20985591411590576, 14.333575248718262, 0.21398234367370605, 16.915891647338867, 0.45985305309295654, 0.011943221092224121, 14.005914688110352, 0.7527821063995361, 0.08170163631439209, 10.901352882385254, 0.414043664932251, 0.2177717685699463, 0.2612292766571045, 0.46027493476867676, 1.3985261917114258, 13.34764575958252, 10.966160774230957, 5.887999534606934, 0.11716020107269287, 0.3750581741333008, 6.0398664474487305, 0.29074883460998535, 0.14834284782409668, 18.36545181274414, 0.18660104274749756, 20.489912033081055, 0.1267704963684082, 0.22115373611450195, 11.255224227905273, 1.7888007164001465, 16.49370765686035, 0.4716705083847046, 0.1439809799194336, 1.5058320760726929, 0.1342778205871582, 0.5878414511680603, 0.2243824005126953, 6.887011528015137, 7.769952774047852, 0.12398123741149902, 13.004983901977539, 0.244614839553833, 0.24884939193725586, 3.5287625789642334, -0.05348002910614014, 16.66754913330078, 0.8151839971542358, 0.20648419857025146, 0.25342857837677, 0.1326221227645874, 0.2299807071685791, -0.25039803981781006, 16.028648376464844, 0.2577998638153076, -0.2641317844390869, 4.923498153686523, 6.926985740661621, 15.375707626342773, 18.958532333374023, 0.22303366661071777, 15.069968223571777, 18.696252822875977, 0.37441301345825195, -0.09945058822631836, 0.15544486045837402, 0.3083536624908447, 0.48739898204803467, 0.18952441215515137, 0.0006263256072998047, 0.5745412707328796, 0.611411452293396, 12.281474113464355, 0.4416447877883911, 0.05606639385223389, 0.2724250555038452, -0.003592252731323242, 17.836355209350586, 19.54676055908203, 0.10759282112121582, 6.5994062423706055, 12.127720832824707, 0.2935161590576172, 0.5386075377464294, 13.864736557006836, 5.82573127746582, 4.578757286071777, 11.907928466796875, 0.12554514408111572, 4.217170715332031, 13.291260719299316, 0.38020992279052734, 0.9324163198471069, 0.3080604076385498, 11.937926292419434, 17.61560821533203, 17.227081298828125, 15.245550155639648, 0.6313514113426208, 0.09236490726470947, 8.41516399383545, 17.799421310424805, 0.003061056137084961, 16.63555335998535, -0.12652897834777832, 17.41065216064453, 2.9973113536834717, 20.09345817565918, 0.21419835090637207, -0.23875081539154053, 0.12940847873687744, 0.46026623249053955, 0.5002329349517822, 1.7367570400238037, 6.892637252807617, 0.27324581146240234, -0.0349961519241333, 9.488717079162598, 0.09171545505523682, 0.4191194772720337, 18.42506980895996, 0.0069741010665893555, 15.336615562438965, 20.478689193725586, 0.12625885009765625, 0.2547883987426758, 0.18482697010040283, 23.835979461669922, 0.008913993835449219, 0.3547290563583374, 0.9398095011711121, 13.9896240234375, 14.712350845336914, -0.05505526065826416, 23.39227867126465, 0.0410844087600708, 18.24207878112793, 20.292240142822266, 0.4201236963272095, 0.8881086707115173, 0.07474875450134277, 2.727060317993164, 0.31004178524017334, 6.7153215408325195, -0.2489759922027588, 16.64982795715332, 12.18593692779541, 0.09437894821166992, 0.10450387001037598, -0.001227259635925293, 0.19776058197021484, 0.01891040802001953, 0.5521087050437927, 1.5839096307754517, 0.33433032035827637, 0.23099994659423828, 16.683076858520508, 0.1566089391708374, 21.650096893310547, 0.7699296474456787, 19.870426177978516, 0.6233277916908264, 12.14656925201416, 23.6079158782959, 11.717666625976562, 0.1751652956008911, 11.983941078186035, 0.2105400562286377, 2.3146212100982666, 13.754772186279297, -0.13950705528259277, 16.603803634643555, 14.969725608825684, 0.31351375579833984, 6.507883071899414, 14.24117374420166, 0.1304304599761963, 0.04825937747955322, -0.1022484302520752, 0.18588471412658691, 0.13944554328918457, 0.3291299343109131, 21.079326629638672, 13.609685897827148, 0.30651283264160156, 0.25433850288391113, 0.07829761505126953, 18.299617767333984, 0.63368159532547, 0.3154338598251343, -0.06485271453857422, 0.2279953956604004, 0.026580810546875, 0.26821327209472656, 1.7100251913070679, 2.0649383068084717, 0.01196908950805664, 0.5436922907829285, 21.2722110748291, 14.313672065734863, 19.31978988647461, 16.895462036132812, 14.473359107971191, 0.3930845260620117, 0.4534395933151245, 0.0064678192138671875, 0.2093505859375, -0.39540982246398926, 0.2839772701263428, 0.2113734483718872, 13.44426155090332, 0.14115309715270996, 19.852224349975586, 19.076496124267578, 2.185865879058838, 16.07957649230957, 9.675980567932129, 0.5543997883796692, 0.7885633111000061, 19.165273666381836, 0.20735931396484375, 19.996959686279297, -0.06368708610534668, 19.96528434753418, 12.940362930297852, 17.196578979492188, 0.2875579595565796, 0.2529747486114502, 0.27266359329223633, 15.036771774291992, 0.6160112619400024, 17.598546981811523, 0.5925953388214111, 9.041083335876465, 15.238079071044922, 0.5221530199050903, 0.27135610580444336, 14.124286651611328, 0.52198725938797, 16.303016662597656, 0.3556421995162964, 15.340171813964844, 0.26343345642089844, 19.671234130859375, 0.16116857528686523, 0.40576863288879395, 22.416954040527344, 12.585835456848145, 0.19422698020935059, 0.3286149501800537, 0.10732865333557129, 0.4279954433441162, 0.3178980350494385, 5.8741559982299805, 17.963167190551758, 0.5923882126808167, 11.2824125289917, 0.28886938095092773, 22.44634437561035, 20.98784828186035, 6.751528739929199, 0.25070643424987793, -0.21357083320617676, 0.25427889823913574, 0.9360377788543701, 0.3344461917877197, 0.4042947292327881, 14.507962226867676, 16.488567352294922, -0.08981990814208984, 0.1928246021270752, 18.510160446166992, 0.4341306686401367, -0.2311168909072876, 0.34844958782196045, 0.10812175273895264, 4.329961776733398, 2.833388090133667, 15.621378898620605, 5.386549949645996, 0.24207496643066406, 1.7362139225006104, 0.34913384914398193, 0.36923670768737793, 19.619647979736328, 17.51886558532715, 0.11515450477600098, 0.1474618911743164, 20.034147262573242, 11.962472915649414, 1.0846960544586182, 0.03673970699310303, 0.07237207889556885, 11.875582695007324, 10.561279296875, 0.18457067012786865, 1.0182409286499023, 0.047330617904663086, 0.8964800238609314, 0.3457028865814209, 12.101118087768555, 0.3633157014846802, 17.869224548339844, 17.212078094482422, 0.0956110954284668, 21.00596046447754, -0.017264604568481445, 0.23102712631225586, 19.3336124420166, 0.6072476506233215, 21.158700942993164, 2.265573024749756, 19.01299285888672, 0.6227513551712036, 0.47427278757095337, 3.694147825241089, 0.12977981567382812, 0.22600722312927246, 4.060677528381348, 0.3517392873764038, 13.776876449584961, 0.1579432487487793, -0.02382373809814453, 0.7276929020881653, 0.4586179256439209, 17.975975036621094, 0.15851593017578125, 0.004121661186218262, 0.41716980934143066, 0.6337514519691467, 0.182753324508667, 11.944392204284668, 6.803897857666016, 0.022550225257873535, 0.19961857795715332, 14.074576377868652, 0.22631824016571045, 0.4627639055252075, 17.280054092407227, 0.6990298628807068, 17.466577529907227, 14.090057373046875, 16.1962833404541, 1.0304811000823975, 11.7667236328125, 0.44612371921539307, 0.16003549098968506, 0.12874209880828857, 0.4834808111190796, 0.24217069149017334, 7.2703447341918945, 2.453009843826294, 3.9290595054626465, 19.649179458618164, 0.17796635627746582, 0.054898858070373535, 2.6498193740844727, 1.156355857849121, 17.41749382019043, 0.35990583896636963, 14.192605972290039, 19.008928298950195, 3.3407320976257324, 0.09630393981933594, 0.14042139053344727, 9.387529373168945, 16.530710220336914, 0.35385072231292725, 1.2150033712387085, 19.945510864257812, 0.3370652198791504, 0.29926419258117676, 17.983047485351562, 0.24973440170288086, 20.356863021850586, 13.366246223449707, 0.22767424583435059, 0.5434167385101318, 0.14730465412139893, 0.5011266469955444, 0.29338860511779785, 0.36472809314727783, 19.124435424804688, 1.3007428646087646, 0.2808663845062256, 15.96914291381836, 0.4070863723754883, 19.755373001098633, -0.004131197929382324, 0.22784876823425293, 0.23091018199920654, 2.4881434440612793, 0.10527682304382324, 13.174473762512207, 0.31995534896850586, 17.60987663269043, 0.29396235942840576, 0.19820356369018555, 0.052744150161743164, 15.9857816696167, 2.77217435836792, 18.167339324951172, 19.436161041259766, 6.24802303314209, 0.4148319959640503, 10.825729370117188, 0.4430563449859619, 15.792571067810059, 0.7701976299285889, 7.1676530838012695, 18.892810821533203, 22.05445671081543, 8.505760192871094, 14.672353744506836, -0.024989962577819824, 18.47345542907715, 0.03936874866485596, 17.848373413085938, 0.47348618507385254, 0.2368025779724121, 0.04665505886077881, 0.6761727333068848, 5.848936080932617, 0.23836874961853027, 18.895200729370117, 0.33586275577545166, 14.123089790344238, 8.271256446838379, -0.04476487636566162, 7.649054527282715, 0.3958629369735718, 1.0503854751586914, 7.573068618774414, 14.12151050567627, 20.915937423706055, 0.5619399547576904, 0.041228294372558594, 9.600523948669434, 0.07024908065795898, 9.534684181213379, 6.025809288024902, 18.71183967590332, 5.347228050231934, 10.284156799316406, 15.745587348937988, 20.275222778320312, 16.63168716430664, 20.965564727783203, 2.7657876014709473, 0.19843196868896484, 18.102649688720703, -0.02805781364440918, 14.544410705566406, 0.30998897552490234, 2.5642175674438477, 7.226311683654785, 19.770435333251953, 0.8344787955284119, 0.2864236831665039, -0.09076762199401855, 17.77016830444336, 0.24222040176391602, 14.180737495422363, 0.20423555374145508, 0.2234504222869873, 2.8192150592803955, 16.37869644165039, -0.02454972267150879, 19.7425594329834, 0.16278445720672607, 17.30192756652832, 0.053795576095581055, 14.184337615966797, 0.5253828167915344, 16.83600616455078, 0.20743680000305176, 11.149324417114258, 22.656532287597656, 0.42514538764953613, 0.16441941261291504, 15.254758834838867, 16.387338638305664, 8.621441841125488, -0.021636605262756348, 0.41195809841156006, 0.4972638487815857, 0.23175907135009766, 22.599637985229492, 21.99003028869629, 12.665740966796875, 16.735483169555664, 16.387432098388672, 0.3819746971130371, 0.25553393363952637, 14.475478172302246, 0.05603468418121338, 18.299245834350586, 15.41262435913086, 17.554527282714844, 0.08758068084716797, 0.26124823093414307, 0.13172507286071777, 4.613384246826172, 0.9317440986633301, 0.2739083766937256, 0.5710085034370422, 23.650493621826172, 20.028032302856445, 18.476675033569336, 0.12276887893676758, 0.187483549118042, 4.352081775665283, 15.679525375366211, 19.874662399291992, 0.20141232013702393, 0.0032886266708374023, 4.775811195373535, 18.7755069732666, 0.1625880002975464, -0.3045886754989624, 17.475650787353516, 19.26995086669922, 0.3250997066497803, 0.3697237968444824, 18.402217864990234, 18.52491569519043, 0.3738899230957031, 0.1643301248550415, 0.37878596782684326, 16.011642456054688, 0.06888222694396973, 0.6124985218048096, 0.0317990779876709, 16.043291091918945, 20.02583122253418, -0.15534758567810059, 2.325148344039917, 0.09171891212463379, 0.4166768789291382, 11.908513069152832, 19.935333251953125, 11.086899757385254]