

File - attention_dense

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1 ssh://root@103.254.67.181:10006/usr/bin/python -u /home/sunfengzhen/pycharm/attention/philipperemy/
  attention_dense.py
2 Using TensorFlow backend.
3 /home/sunfengzhen/pycharm/attention/philipperemy/attention_dense.py:32: UserWarning: Update your `Model`
  call to the Keras 2 API: `Model(outputs=Tensor("de...", inputs=[<tf.Tensor...])`
4 model = Model(input=[inputs], output=output)
5
6 Layer (type)                Output Shape                Param #                    Connected to
7 -----
8 input_1 (InputLayer)        (None, 32)                  0                          None
9
10 attention_vec (Dense)        (None, 32)                  1056                       input_1[0][0]
11
12 attention_mul (Multiply)     (None, 32)                  0                          input_1[0][0]
13                                attention_vec[0][0]
14
15 dense_1 (Dense)              (None, 64)                  2112                       attention_mul[0][0]
16
17 dense_2 (Dense)              (None, 1)                   65                         dense_1[0][0]
18 -----
19 Total params: 3,233
20 Trainable params: 3,233
21 Non-trainable params: 0
22
23 None
24 Train on 5000 samples, validate on 5000 samples
25 Epoch 1/2000
26 2019-10-21 08:22:42.602288: I tensorflow/core/platform/cpu_feature_guard.cc:141] Your CPU supports
  instructions that this TensorFlow binary was not compiled to use: AVX2 FMA
27 2019-10-21 08:22:42.805457: I tensorflow/core/common_runtime/gpu/gpu_device.cc:1432] Found device 0 with
  properties:
28 name: GeForce GTX 1080 Ti major: 6 minor: 1 memoryClockRate(GHz): 1.582
29 pciBusID: 0000:02:00.0
30 totalMemory: 10.92GiB freeMemory: 10.76GiB
31 2019-10-21 08:22:42.805507: I tensorflow/core/common_runtime/gpu/gpu_device.cc:1511] Adding visible gpu
  devices: 0
32 2019-10-21 08:22:43.183795: I tensorflow/core/common_runtime/gpu/gpu_device.cc:982] Device interconnect
  StreamExecutor with strength 1 edge matrix:
33 2019-10-21 08:22:43.183868: I tensorflow/core/common_runtime/gpu/gpu_device.cc:988] 0
34 2019-10-21 08:22:43.183882: I tensorflow/core/common_runtime/gpu/gpu_device.cc:1001] 0: N
35 2019-10-21 08:22:43.184265: I tensorflow/core/common_runtime/gpu/gpu_device.cc:1115] Created TensorFlow
  device (/job:localhost/replica:0/task:0/device:GPU:0 with 10409 MB memory) -> physical GPU (device: 0,
  name: GeForce GTX 1080 Ti, pci bus id: 0000:02:00.0, compute capability: 6.1)
36 - 2s - loss: 0.6821 - acc: 0.6240 - val_loss: 0.6697 - val_acc: 0.6974
37 Epoch 2/2000
38 - 0s - loss: 0.6378 - acc: 0.7474 - val_loss: 0.6003 - val_acc: 0.7842
39 Epoch 3/2000
40 - 1s - loss: 0.5413 - acc: 0.7994 - val_loss: 0.4925 - val_acc: 0.8162
41 Epoch 4/2000
42 - 1s - loss: 0.4277 - acc: 0.8406 - val_loss: 0.3840 - val_acc: 0.8660
43 Epoch 5/2000
44 - 1s - loss: 0.3136 - acc: 0.8908 - val_loss: 0.2700 - val_acc: 0.9032
45 Epoch 6/2000
46 - 1s - loss: 0.1978 - acc: 0.9482 - val_loss: 0.1558 - val_acc: 0.9600
47 Epoch 7/2000
48 - 1s - loss: 0.0980 - acc: 0.9848 - val_loss: 0.0690 - val_acc: 0.9900
49 Epoch 8/2000
50 - 0s - loss: 0.0389 - acc: 0.9982 - val_loss: 0.0278 - val_acc: 0.9984
51 Epoch 9/2000
52 - 1s - loss: 0.0154 - acc: 0.9998 - val_loss: 0.0127 - val_acc: 0.9994
53 Epoch 10/2000

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54 - 1s - loss: 0.0074 - acc: 1.0000 - val_loss: 0.0071 - val_acc: 1.0000
55 Epoch 11/2000
56 - 1s - loss: 0.0043 - acc: 1.0000 - val_loss: 0.0045 - val_acc: 1.0000
57 Epoch 12/2000
58 - 1s - loss: 0.0028 - acc: 1.0000 - val_loss: 0.0032 - val_acc: 1.0000
59 Epoch 13/2000
60 - 1s - loss: 0.0020 - acc: 1.0000 - val_loss: 0.0024 - val_acc: 1.0000
61 Epoch 14/2000
62 - 1s - loss: 0.0015 - acc: 1.0000 - val_loss: 0.0018 - val_acc: 1.0000
63 Epoch 15/2000
64 - 0s - loss: 0.0012 - acc: 1.0000 - val_loss: 0.0015 - val_acc: 1.0000
65 Epoch 16/2000
66 - 0s - loss: 9.9448e-04 - acc: 1.0000 - val_loss: 0.0012 - val_acc: 1.0000
67 Epoch 17/2000
68 - 1s - loss: 8.2831e-04 - acc: 1.0000 - val_loss: 0.0010 - val_acc: 1.0000
69 Epoch 18/2000
70 - 0s - loss: 7.0220e-04 - acc: 1.0000 - val_loss: 8.6254e-04 - val_acc: 1.0000
71 Epoch 19/2000
72 - 0s - loss: 6.0320e-04 - acc: 1.0000 - val_loss: 7.4397e-04 - val_acc: 1.0000
73 Epoch 20/2000
74 - 0s - loss: 5.2343e-04 - acc: 1.0000 - val_loss: 6.4749e-04 - val_acc: 1.0000
75 Epoch 21/2000
76 - 0s - loss: 4.5963e-04 - acc: 1.0000 - val_loss: 5.7014e-04 - val_acc: 1.0000
77 Epoch 22/2000
78 - 0s - loss: 4.0755e-04 - acc: 1.0000 - val_loss: 5.0683e-04 - val_acc: 1.0000
79 Epoch 23/2000
80 - 1s - loss: 3.6405e-04 - acc: 1.0000 - val_loss: 4.5314e-04 - val_acc: 1.0000
81 Epoch 24/2000
82 - 1s - loss: 3.2642e-04 - acc: 1.0000 - val_loss: 4.0689e-04 - val_acc: 1.0000
83 Epoch 25/2000
84 - 0s - loss: 2.9459e-04 - acc: 1.0000 - val_loss: 3.6799e-04 - val_acc: 1.0000
85 Epoch 26/2000
86 - 1s - loss: 2.6752e-04 - acc: 1.0000 - val_loss: 3.3409e-04 - val_acc: 1.0000
87 Epoch 27/2000
88 - 1s - loss: 2.4383e-04 - acc: 1.0000 - val_loss: 3.0484e-04 - val_acc: 1.0000
89 Epoch 28/2000
90 - 0s - loss: 2.2308e-04 - acc: 1.0000 - val_loss: 2.7905e-04 - val_acc: 1.0000
91 Epoch 29/2000
92 - 1s - loss: 2.0453e-04 - acc: 1.0000 - val_loss: 2.5604e-04 - val_acc: 1.0000
93 Epoch 30/2000
94 - 1s - loss: 1.8834e-04 - acc: 1.0000 - val_loss: 2.3576e-04 - val_acc: 1.0000
95 Epoch 31/2000
96 - 1s - loss: 1.7387e-04 - acc: 1.0000 - val_loss: 2.1781e-04 - val_acc: 1.0000
97 Epoch 32/2000
98 - 1s - loss: 1.6078e-04 - acc: 1.0000 - val_loss: 2.0125e-04 - val_acc: 1.0000
99 Epoch 33/2000
100 - 0s - loss: 1.4906e-04 - acc: 1.0000 - val_loss: 1.8669e-04 - val_acc: 1.0000
101 Epoch 34/2000
102 - 0s - loss: 1.3849e-04 - acc: 1.0000 - val_loss: 1.7350e-04 - val_acc: 1.0000
103 Epoch 35/2000
104 - 0s - loss: 1.2893e-04 - acc: 1.0000 - val_loss: 1.6166e-04 - val_acc: 1.0000
105 Epoch 36/2000
106 - 1s - loss: 1.2024e-04 - acc: 1.0000 - val_loss: 1.5082e-04 - val_acc: 1.0000
107 Epoch 37/2000
108 - 0s - loss: 1.1231e-04 - acc: 1.0000 - val_loss: 1.4079e-04 - val_acc: 1.0000
109 Epoch 38/2000
110 - 1s - loss: 1.0500e-04 - acc: 1.0000 - val_loss: 1.3165e-04 - val_acc: 1.0000
111 Epoch 39/2000
112 - 1s - loss: 9.8301e-05 - acc: 1.0000 - val_loss: 1.2325e-04 - val_acc: 1.0000
113 Epoch 40/2000
114 - 1s - loss: 9.2173e-05 - acc: 1.0000 - val_loss: 1.1563e-04 - val_acc: 1.0000
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115 Epoch 41/2000
116   - 0s - loss: 8.6525e-05 - acc: 1.0000 - val_loss: 1.0855e-04 - val_acc: 1.0000
117 Epoch 42/2000
118   - 0s - loss: 8.1322e-05 - acc: 1.0000 - val_loss: 1.0197e-04 - val_acc: 1.0000
119 Epoch 43/2000
120   - 1s - loss: 7.6473e-05 - acc: 1.0000 - val_loss: 9.5964e-05 - val_acc: 1.0000
121 Epoch 44/2000
122   - 0s - loss: 7.1972e-05 - acc: 1.0000 - val_loss: 9.0343e-05 - val_acc: 1.0000
123 Epoch 45/2000
124   - 0s - loss: 6.7795e-05 - acc: 1.0000 - val_loss: 8.5050e-05 - val_acc: 1.0000
125 Epoch 46/2000
126   - 0s - loss: 6.3913e-05 - acc: 1.0000 - val_loss: 8.0262e-05 - val_acc: 1.0000
127 Epoch 47/2000
128   - 0s - loss: 6.0299e-05 - acc: 1.0000 - val_loss: 7.5671e-05 - val_acc: 1.0000
129 Epoch 48/2000
130   - 0s - loss: 5.6920e-05 - acc: 1.0000 - val_loss: 7.1475e-05 - val_acc: 1.0000
131 Epoch 49/2000
132   - 0s - loss: 5.3780e-05 - acc: 1.0000 - val_loss: 6.7524e-05 - val_acc: 1.0000
133 Epoch 50/2000
134   - 1s - loss: 5.0848e-05 - acc: 1.0000 - val_loss: 6.3861e-05 - val_acc: 1.0000
135 Epoch 51/2000
136   - 0s - loss: 4.8118e-05 - acc: 1.0000 - val_loss: 6.0435e-05 - val_acc: 1.0000
137 Epoch 52/2000
138   - 0s - loss: 4.5551e-05 - acc: 1.0000 - val_loss: 5.7217e-05 - val_acc: 1.0000
139 Epoch 53/2000
140   - 1s - loss: 4.3137e-05 - acc: 1.0000 - val_loss: 5.4199e-05 - val_acc: 1.0000
141 Epoch 54/2000
142   - 0s - loss: 4.0870e-05 - acc: 1.0000 - val_loss: 5.1362e-05 - val_acc: 1.0000
143 Epoch 55/2000
144   - 0s - loss: 3.8735e-05 - acc: 1.0000 - val_loss: 4.8675e-05 - val_acc: 1.0000
145 Epoch 56/2000
146   - 0s - loss: 3.6707e-05 - acc: 1.0000 - val_loss: 4.6141e-05 - val_acc: 1.0000
147 Epoch 57/2000
148   - 0s - loss: 3.4831e-05 - acc: 1.0000 - val_loss: 4.3777e-05 - val_acc: 1.0000
149 Epoch 58/2000
150   - 0s - loss: 3.3050e-05 - acc: 1.0000 - val_loss: 4.1562e-05 - val_acc: 1.0000
151 Epoch 59/2000
152   - 0s - loss: 3.1386e-05 - acc: 1.0000 - val_loss: 3.9472e-05 - val_acc: 1.0000
153 Epoch 60/2000
154   - 1s - loss: 2.9816e-05 - acc: 1.0000 - val_loss: 3.7482e-05 - val_acc: 1.0000
155 Epoch 61/2000
156   - 0s - loss: 2.8330e-05 - acc: 1.0000 - val_loss: 3.5626e-05 - val_acc: 1.0000
157 Epoch 62/2000
158   - 1s - loss: 2.6928e-05 - acc: 1.0000 - val_loss: 3.3850e-05 - val_acc: 1.0000
159 Epoch 63/2000
160   - 1s - loss: 2.5597e-05 - acc: 1.0000 - val_loss: 3.2200e-05 - val_acc: 1.0000
161 Epoch 64/2000
162   - 1s - loss: 2.4348e-05 - acc: 1.0000 - val_loss: 3.0617e-05 - val_acc: 1.0000
163 Epoch 65/2000
164   - 0s - loss: 2.3166e-05 - acc: 1.0000 - val_loss: 2.9138e-05 - val_acc: 1.0000
165 Epoch 66/2000
166   - 1s - loss: 2.2044e-05 - acc: 1.0000 - val_loss: 2.7733e-05 - val_acc: 1.0000
167 Epoch 67/2000
168   - 0s - loss: 2.0978e-05 - acc: 1.0000 - val_loss: 2.6395e-05 - val_acc: 1.0000
169 Epoch 68/2000
170   - 1s - loss: 1.9964e-05 - acc: 1.0000 - val_loss: 2.5126e-05 - val_acc: 1.0000
171 Epoch 69/2000
172   - 0s - loss: 1.9011e-05 - acc: 1.0000 - val_loss: 2.3931e-05 - val_acc: 1.0000
173 Epoch 70/2000
174   - 0s - loss: 1.8110e-05 - acc: 1.0000 - val_loss: 2.2797e-05 - val_acc: 1.0000
175 Epoch 71/2000
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176 - 0s - loss: 1.7253e-05 - acc: 1.0000 - val_loss: 2.1723e-05 - val_acc: 1.0000
177 Epoch 72/2000
178 - 0s - loss: 1.6442e-05 - acc: 1.0000 - val_loss: 2.0703e-05 - val_acc: 1.0000
179 Epoch 73/2000
180 - 0s - loss: 1.5666e-05 - acc: 1.0000 - val_loss: 1.9739e-05 - val_acc: 1.0000
181 Epoch 74/2000
182 - 0s - loss: 1.4932e-05 - acc: 1.0000 - val_loss: 1.8818e-05 - val_acc: 1.0000
183 Epoch 75/2000
184 - 0s - loss: 1.4234e-05 - acc: 1.0000 - val_loss: 1.7941e-05 - val_acc: 1.0000
185 Epoch 76/2000
186 - 0s - loss: 1.3572e-05 - acc: 1.0000 - val_loss: 1.7106e-05 - val_acc: 1.0000
187 Epoch 77/2000
188 - 0s - loss: 1.2937e-05 - acc: 1.0000 - val_loss: 1.6310e-05 - val_acc: 1.0000
189 Epoch 78/2000
190 - 0s - loss: 1.2343e-05 - acc: 1.0000 - val_loss: 1.5563e-05 - val_acc: 1.0000
191 Epoch 79/2000
192 - 0s - loss: 1.1774e-05 - acc: 1.0000 - val_loss: 1.4845e-05 - val_acc: 1.0000
193 Epoch 80/2000
194 - 0s - loss: 1.1231e-05 - acc: 1.0000 - val_loss: 1.4167e-05 - val_acc: 1.0000
195 Epoch 81/2000
196 - 0s - loss: 1.0718e-05 - acc: 1.0000 - val_loss: 1.3522e-05 - val_acc: 1.0000
197 Epoch 82/2000
198 - 0s - loss: 1.0227e-05 - acc: 1.0000 - val_loss: 1.2901e-05 - val_acc: 1.0000
199 Epoch 83/2000
200 - 0s - loss: 9.7603e-06 - acc: 1.0000 - val_loss: 1.2321e-05 - val_acc: 1.0000
201 Epoch 84/2000
202 - 0s - loss: 9.3174e-06 - acc: 1.0000 - val_loss: 1.1762e-05 - val_acc: 1.0000
203 Epoch 85/2000
204 - 0s - loss: 8.8927e-06 - acc: 1.0000 - val_loss: 1.1230e-05 - val_acc: 1.0000
205 Epoch 86/2000
206 - 0s - loss: 8.4887e-06 - acc: 1.0000 - val_loss: 1.0723e-05 - val_acc: 1.0000
207 Epoch 87/2000
208 - 0s - loss: 8.1043e-06 - acc: 1.0000 - val_loss: 1.0244e-05 - val_acc: 1.0000
209 Epoch 88/2000
210 - 0s - loss: 7.7399e-06 - acc: 1.0000 - val_loss: 9.7798e-06 - val_acc: 1.0000
211 Epoch 89/2000
212 - 0s - loss: 7.3929e-06 - acc: 1.0000 - val_loss: 9.3433e-06 - val_acc: 1.0000
213 Epoch 90/2000
214 - 0s - loss: 7.0586e-06 - acc: 1.0000 - val_loss: 8.9249e-06 - val_acc: 1.0000
215 Epoch 91/2000
216 - 0s - loss: 6.7413e-06 - acc: 1.0000 - val_loss: 8.5261e-06 - val_acc: 1.0000
217 Epoch 92/2000
218 - 0s - loss: 6.4395e-06 - acc: 1.0000 - val_loss: 8.1448e-06 - val_acc: 1.0000
219 Epoch 93/2000
220 - 0s - loss: 6.1518e-06 - acc: 1.0000 - val_loss: 7.7833e-06 - val_acc: 1.0000
221 Epoch 94/2000
222 - 1s - loss: 5.8751e-06 - acc: 1.0000 - val_loss: 7.4277e-06 - val_acc: 1.0000
223 Epoch 95/2000
224 - 0s - loss: 5.6127e-06 - acc: 1.0000 - val_loss: 7.1014e-06 - val_acc: 1.0000
225 Epoch 96/2000
226 - 0s - loss: 5.3638e-06 - acc: 1.0000 - val_loss: 6.7876e-06 - val_acc: 1.0000
227 Epoch 97/2000
228 - 0s - loss: 5.1251e-06 - acc: 1.0000 - val_loss: 6.4879e-06 - val_acc: 1.0000
229 Epoch 98/2000
230 - 0s - loss: 4.8993e-06 - acc: 1.0000 - val_loss: 6.2030e-06 - val_acc: 1.0000
231 Epoch 99/2000
232 - 0s - loss: 4.6834e-06 - acc: 1.0000 - val_loss: 5.9324e-06 - val_acc: 1.0000
233 Epoch 100/2000
234 - 0s - loss: 4.4752e-06 - acc: 1.0000 - val_loss: 5.6691e-06 - val_acc: 1.0000
235 Epoch 101/2000
236 - 0s - loss: 4.2762e-06 - acc: 1.0000 - val_loss: 5.4205e-06 - val_acc: 1.0000
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237 Epoch 102/2000
238   - 0s - loss: 4.0888e-06 - acc: 1.0000 - val_loss: 5.1825e-06 - val_acc: 1.0000
239 Epoch 103/2000
240   - 0s - loss: 3.9089e-06 - acc: 1.0000 - val_loss: 4.9587e-06 - val_acc: 1.0000
241 Epoch 104/2000
242   - 0s - loss: 3.7391e-06 - acc: 1.0000 - val_loss: 4.7418e-06 - val_acc: 1.0000
243 Epoch 105/2000
244   - 0s - loss: 3.5746e-06 - acc: 1.0000 - val_loss: 4.5354e-06 - val_acc: 1.0000
245 Epoch 106/2000
246   - 0s - loss: 3.4179e-06 - acc: 1.0000 - val_loss: 4.3365e-06 - val_acc: 1.0000
247 Epoch 107/2000
248   - 0s - loss: 3.2672e-06 - acc: 1.0000 - val_loss: 4.1485e-06 - val_acc: 1.0000
249 Epoch 108/2000
250   - 0s - loss: 3.1253e-06 - acc: 1.0000 - val_loss: 3.9681e-06 - val_acc: 1.0000
251 Epoch 109/2000
252   - 0s - loss: 2.9890e-06 - acc: 1.0000 - val_loss: 3.7971e-06 - val_acc: 1.0000
253 Epoch 110/2000
254   - 0s - loss: 2.8586e-06 - acc: 1.0000 - val_loss: 3.6322e-06 - val_acc: 1.0000
255 Epoch 111/2000
256   - 1s - loss: 2.7345e-06 - acc: 1.0000 - val_loss: 3.4743e-06 - val_acc: 1.0000
257 Epoch 112/2000
258   - 0s - loss: 2.6159e-06 - acc: 1.0000 - val_loss: 3.3248e-06 - val_acc: 1.0000
259 Epoch 113/2000
260   - 0s - loss: 2.5009e-06 - acc: 1.0000 - val_loss: 3.1802e-06 - val_acc: 1.0000
261 Epoch 114/2000
262   - 0s - loss: 2.3928e-06 - acc: 1.0000 - val_loss: 3.0419e-06 - val_acc: 1.0000
263 Epoch 115/2000
264   - 0s - loss: 2.2889e-06 - acc: 1.0000 - val_loss: 2.9118e-06 - val_acc: 1.0000
265 Epoch 116/2000
266   - 0s - loss: 2.1906e-06 - acc: 1.0000 - val_loss: 2.7853e-06 - val_acc: 1.0000
267 Epoch 117/2000
268   - 0s - loss: 2.0957e-06 - acc: 1.0000 - val_loss: 2.6666e-06 - val_acc: 1.0000
269 Epoch 118/2000
270   - 0s - loss: 2.0054e-06 - acc: 1.0000 - val_loss: 2.5517e-06 - val_acc: 1.0000
271 Epoch 119/2000
272   - 0s - loss: 1.9188e-06 - acc: 1.0000 - val_loss: 2.4421e-06 - val_acc: 1.0000
273 Epoch 120/2000
274   - 0s - loss: 1.8364e-06 - acc: 1.0000 - val_loss: 2.3382e-06 - val_acc: 1.0000
275 Epoch 121/2000
276   - 1s - loss: 1.7572e-06 - acc: 1.0000 - val_loss: 2.2382e-06 - val_acc: 1.0000
277 Epoch 122/2000
278   - 0s - loss: 1.6824e-06 - acc: 1.0000 - val_loss: 2.1429e-06 - val_acc: 1.0000
279 Epoch 123/2000
280   - 0s - loss: 1.6102e-06 - acc: 1.0000 - val_loss: 2.0505e-06 - val_acc: 1.0000
281 Epoch 124/2000
282   - 0s - loss: 1.5408e-06 - acc: 1.0000 - val_loss: 1.9640e-06 - val_acc: 1.0000
283 Epoch 125/2000
284   - 0s - loss: 1.4749e-06 - acc: 1.0000 - val_loss: 1.8802e-06 - val_acc: 1.0000
285 Epoch 126/2000
286   - 0s - loss: 1.4121e-06 - acc: 1.0000 - val_loss: 1.8005e-06 - val_acc: 1.0000
287 Epoch 127/2000
288   - 0s - loss: 1.3518e-06 - acc: 1.0000 - val_loss: 1.7246e-06 - val_acc: 1.0000
289 Epoch 128/2000
290   - 0s - loss: 1.2932e-06 - acc: 1.0000 - val_loss: 1.6498e-06 - val_acc: 1.0000
291 Epoch 129/2000
292   - 0s - loss: 1.2384e-06 - acc: 1.0000 - val_loss: 1.5807e-06 - val_acc: 1.0000
293 Epoch 130/2000
294   - 0s - loss: 1.1855e-06 - acc: 1.0000 - val_loss: 1.5122e-06 - val_acc: 1.0000
295 Epoch 131/2000
296   - 0s - loss: 1.1347e-06 - acc: 1.0000 - val_loss: 1.4487e-06 - val_acc: 1.0000
297 Epoch 132/2000
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298 - 0s - loss: 1.0864e-06 - acc: 1.0000 - val_loss: 1.3883e-06 - val_acc: 1.0000
299 Epoch 133/2000
300 - 0s - loss: 1.0405e-06 - acc: 1.0000 - val_loss: 1.3283e-06 - val_acc: 1.0000
301 Epoch 134/2000
302 - 0s - loss: 9.9648e-07 - acc: 1.0000 - val_loss: 1.2724e-06 - val_acc: 1.0000
303 Epoch 135/2000
304 - 1s - loss: 9.5385e-07 - acc: 1.0000 - val_loss: 1.2181e-06 - val_acc: 1.0000
305 Epoch 136/2000
306 - 0s - loss: 9.1263e-07 - acc: 1.0000 - val_loss: 1.1670e-06 - val_acc: 1.0000
307 Epoch 137/2000
308 - 0s - loss: 8.7454e-07 - acc: 1.0000 - val_loss: 1.1183e-06 - val_acc: 1.0000
309 Epoch 138/2000
310 - 0s - loss: 8.3739e-07 - acc: 1.0000 - val_loss: 1.0712e-06 - val_acc: 1.0000
311 Epoch 139/2000
312 - 0s - loss: 8.0172e-07 - acc: 1.0000 - val_loss: 1.0266e-06 - val_acc: 1.0000
313 Epoch 140/2000
314 - 0s - loss: 7.6822e-07 - acc: 1.0000 - val_loss: 9.8268e-07 - val_acc: 1.0000
315 Epoch 141/2000
316 - 0s - loss: 7.3616e-07 - acc: 1.0000 - val_loss: 9.4244e-07 - val_acc: 1.0000
317 Epoch 142/2000
318 - 0s - loss: 7.0450e-07 - acc: 1.0000 - val_loss: 9.0177e-07 - val_acc: 1.0000
319 Epoch 143/2000
320 - 0s - loss: 6.7493e-07 - acc: 1.0000 - val_loss: 8.6443e-07 - val_acc: 1.0000
321 Epoch 144/2000
322 - 0s - loss: 6.4693e-07 - acc: 1.0000 - val_loss: 8.2687e-07 - val_acc: 1.0000
323 Epoch 145/2000
324 - 0s - loss: 6.1966e-07 - acc: 1.0000 - val_loss: 7.9227e-07 - val_acc: 1.0000
325 Epoch 146/2000
326 - 0s - loss: 5.9403e-07 - acc: 1.0000 - val_loss: 7.6005e-07 - val_acc: 1.0000
327 Epoch 147/2000
328 - 0s - loss: 5.6979e-07 - acc: 1.0000 - val_loss: 7.2809e-07 - val_acc: 1.0000
329 Epoch 148/2000
330 - 0s - loss: 5.4620e-07 - acc: 1.0000 - val_loss: 6.9915e-07 - val_acc: 1.0000
331 Epoch 149/2000
332 - 0s - loss: 5.2387e-07 - acc: 1.0000 - val_loss: 6.7013e-07 - val_acc: 1.0000
333 Epoch 150/2000
334 - 0s - loss: 5.0196e-07 - acc: 1.0000 - val_loss: 6.4306e-07 - val_acc: 1.0000
335 Epoch 151/2000
336 - 1s - loss: 4.8100e-07 - acc: 1.0000 - val_loss: 6.1656e-07 - val_acc: 1.0000
337 Epoch 152/2000
338 - 0s - loss: 4.6201e-07 - acc: 1.0000 - val_loss: 5.9152e-07 - val_acc: 1.0000
339 Epoch 153/2000
340 - 0s - loss: 4.4381e-07 - acc: 1.0000 - val_loss: 5.6722e-07 - val_acc: 1.0000
341 Epoch 154/2000
342 - 0s - loss: 4.2644e-07 - acc: 1.0000 - val_loss: 5.4453e-07 - val_acc: 1.0000
343 Epoch 155/2000
344 - 0s - loss: 4.0951e-07 - acc: 1.0000 - val_loss: 5.2273e-07 - val_acc: 1.0000
345 Epoch 156/2000
346 - 0s - loss: 3.9387e-07 - acc: 1.0000 - val_loss: 5.0254e-07 - val_acc: 1.0000
347 Epoch 157/2000
348 - 0s - loss: 3.7842e-07 - acc: 1.0000 - val_loss: 4.8270e-07 - val_acc: 1.0000
349 Epoch 158/2000
350 - 0s - loss: 3.6395e-07 - acc: 1.0000 - val_loss: 4.6403e-07 - val_acc: 1.0000
351 Epoch 159/2000
352 - 0s - loss: 3.5060e-07 - acc: 1.0000 - val_loss: 4.4603e-07 - val_acc: 1.0000
353 Epoch 160/2000
354 - 0s - loss: 3.3724e-07 - acc: 1.0000 - val_loss: 4.2885e-07 - val_acc: 1.0000
355 Epoch 161/2000
356 - 0s - loss: 3.2513e-07 - acc: 1.0000 - val_loss: 4.1261e-07 - val_acc: 1.0000
357 Epoch 162/2000
358 - 0s - loss: 3.1361e-07 - acc: 1.0000 - val_loss: 3.9748e-07 - val_acc: 1.0000
```

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359 Epoch 163/2000
360   - 0s - loss: 3.0248e-07 - acc: 1.0000 - val_loss: 3.8296e-07 - val_acc: 1.0000
361 Epoch 164/2000
362   - 0s - loss: 2.9172e-07 - acc: 1.0000 - val_loss: 3.6872e-07 - val_acc: 1.0000
363 Epoch 165/2000
364   - 0s - loss: 2.8184e-07 - acc: 1.0000 - val_loss: 3.5554e-07 - val_acc: 1.0000
365 Epoch 166/2000
366   - 0s - loss: 2.7249e-07 - acc: 1.0000 - val_loss: 3.4319e-07 - val_acc: 1.0000
367 Epoch 167/2000
368   - 0s - loss: 2.6339e-07 - acc: 1.0000 - val_loss: 3.3089e-07 - val_acc: 1.0000
369 Epoch 168/2000
370   - 0s - loss: 2.5491e-07 - acc: 1.0000 - val_loss: 3.1958e-07 - val_acc: 1.0000
371 Epoch 169/2000
372   - 0s - loss: 2.4669e-07 - acc: 1.0000 - val_loss: 3.0869e-07 - val_acc: 1.0000
373 Epoch 170/2000
374   - 0s - loss: 2.3874e-07 - acc: 1.0000 - val_loss: 2.9836e-07 - val_acc: 1.0000
375 Epoch 171/2000
376   - 0s - loss: 2.3157e-07 - acc: 1.0000 - val_loss: 2.8882e-07 - val_acc: 1.0000
377 Epoch 172/2000
378   - 0s - loss: 2.2458e-07 - acc: 1.0000 - val_loss: 2.7945e-07 - val_acc: 1.0000
379 Epoch 173/2000
380   - 0s - loss: 2.1846e-07 - acc: 1.0000 - val_loss: 2.7113e-07 - val_acc: 1.0000
381 Epoch 174/2000
382   - 0s - loss: 2.1265e-07 - acc: 1.0000 - val_loss: 2.6294e-07 - val_acc: 1.0000
383 Epoch 175/2000
384   - 0s - loss: 2.0663e-07 - acc: 1.0000 - val_loss: 2.5521e-07 - val_acc: 1.0000
385 Epoch 176/2000
386   - 0s - loss: 2.0122e-07 - acc: 1.0000 - val_loss: 2.4777e-07 - val_acc: 1.0000
387 Epoch 177/2000
388   - 0s - loss: 1.9590e-07 - acc: 1.0000 - val_loss: 2.4079e-07 - val_acc: 1.0000
389 Epoch 178/2000
390   - 0s - loss: 1.9104e-07 - acc: 1.0000 - val_loss: 2.3413e-07 - val_acc: 1.0000
391 Epoch 179/2000
392   - 0s - loss: 1.8653e-07 - acc: 1.0000 - val_loss: 2.2775e-07 - val_acc: 1.0000
393 Epoch 180/2000
394   - 0s - loss: 1.8214e-07 - acc: 1.0000 - val_loss: 2.2189e-07 - val_acc: 1.0000
395 Epoch 181/2000
396   - 0s - loss: 1.7803e-07 - acc: 1.0000 - val_loss: 2.1629e-07 - val_acc: 1.0000
397 Epoch 182/2000
398   - 0s - loss: 1.7411e-07 - acc: 1.0000 - val_loss: 2.1082e-07 - val_acc: 1.0000
399 Epoch 183/2000
400   - 0s - loss: 1.7019e-07 - acc: 1.0000 - val_loss: 2.0581e-07 - val_acc: 1.0000
401 Epoch 184/2000
402   - 0s - loss: 1.6678e-07 - acc: 1.0000 - val_loss: 2.0091e-07 - val_acc: 1.0000
403 Epoch 185/2000
404   - 0s - loss: 1.6353e-07 - acc: 1.0000 - val_loss: 1.9647e-07 - val_acc: 1.0000
405 Epoch 186/2000
406   - 0s - loss: 1.6059e-07 - acc: 1.0000 - val_loss: 1.9220e-07 - val_acc: 1.0000
407 Epoch 187/2000
408   - 0s - loss: 1.5765e-07 - acc: 1.0000 - val_loss: 1.8808e-07 - val_acc: 1.0000
409 Epoch 188/2000
410   - 0s - loss: 1.5492e-07 - acc: 1.0000 - val_loss: 1.8422e-07 - val_acc: 1.0000
411 Epoch 189/2000
412   - 0s - loss: 1.5232e-07 - acc: 1.0000 - val_loss: 1.8055e-07 - val_acc: 1.0000
413 Epoch 190/2000
414   - 0s - loss: 1.4985e-07 - acc: 1.0000 - val_loss: 1.7710e-07 - val_acc: 1.0000
415 Epoch 191/2000
416   - 0s - loss: 1.4759e-07 - acc: 1.0000 - val_loss: 1.7370e-07 - val_acc: 1.0000
417 Epoch 192/2000
418   - 0s - loss: 1.4536e-07 - acc: 1.0000 - val_loss: 1.7055e-07 - val_acc: 1.0000
419 Epoch 193/2000
```

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420 - 0s - loss: 1.4306e-07 - acc: 1.0000 - val_loss: 1.6752e-07 - val_acc: 1.0000
421 Epoch 194/2000
422 - 0s - loss: 1.4112e-07 - acc: 1.0000 - val_loss: 1.6483e-07 - val_acc: 1.0000
423 Epoch 195/2000
424 - 0s - loss: 1.3923e-07 - acc: 1.0000 - val_loss: 1.6198e-07 - val_acc: 1.0000
425 Epoch 196/2000
426 - 0s - loss: 1.3752e-07 - acc: 1.0000 - val_loss: 1.5946e-07 - val_acc: 1.0000
427 Epoch 197/2000
428 - 0s - loss: 1.3596e-07 - acc: 1.0000 - val_loss: 1.5710e-07 - val_acc: 1.0000
429 Epoch 198/2000
430 - 1s - loss: 1.3443e-07 - acc: 1.0000 - val_loss: 1.5492e-07 - val_acc: 1.0000
431 Epoch 199/2000
432 - 0s - loss: 1.3301e-07 - acc: 1.0000 - val_loss: 1.5280e-07 - val_acc: 1.0000
433 Epoch 200/2000
434 - 0s - loss: 1.3163e-07 - acc: 1.0000 - val_loss: 1.5087e-07 - val_acc: 1.0000
435 Epoch 201/2000
436 - 0s - loss: 1.3042e-07 - acc: 1.0000 - val_loss: 1.4895e-07 - val_acc: 1.0000
437 Epoch 202/2000
438 - 0s - loss: 1.2925e-07 - acc: 1.0000 - val_loss: 1.4710e-07 - val_acc: 1.0000
439 Epoch 203/2000
440 - 0s - loss: 1.2814e-07 - acc: 1.0000 - val_loss: 1.4533e-07 - val_acc: 1.0000
441 Epoch 204/2000
442 - 0s - loss: 1.2710e-07 - acc: 1.0000 - val_loss: 1.4375e-07 - val_acc: 1.0000
443 Epoch 205/2000
444 - 0s - loss: 1.2608e-07 - acc: 1.0000 - val_loss: 1.4229e-07 - val_acc: 1.0000
445 Epoch 206/2000
446 - 0s - loss: 1.2519e-07 - acc: 1.0000 - val_loss: 1.4095e-07 - val_acc: 1.0000
447 Epoch 207/2000
448 - 0s - loss: 1.2434e-07 - acc: 1.0000 - val_loss: 1.3965e-07 - val_acc: 1.0000
449 Epoch 208/2000
450 - 0s - loss: 1.2349e-07 - acc: 1.0000 - val_loss: 1.3837e-07 - val_acc: 1.0000
451 Epoch 209/2000
452 - 0s - loss: 1.2269e-07 - acc: 1.0000 - val_loss: 1.3715e-07 - val_acc: 1.0000
453 Epoch 210/2000
454 - 0s - loss: 1.2198e-07 - acc: 1.0000 - val_loss: 1.3610e-07 - val_acc: 1.0000
455 Epoch 211/2000
456 - 0s - loss: 1.2127e-07 - acc: 1.0000 - val_loss: 1.3512e-07 - val_acc: 1.0000
457 Epoch 212/2000
458 - 0s - loss: 1.2060e-07 - acc: 1.0000 - val_loss: 1.3415e-07 - val_acc: 1.0000
459 Epoch 213/2000
460 - 0s - loss: 1.2000e-07 - acc: 1.0000 - val_loss: 1.3310e-07 - val_acc: 1.0000
461 Epoch 214/2000
462 - 0s - loss: 1.1940e-07 - acc: 1.0000 - val_loss: 1.3212e-07 - val_acc: 1.0000
463 Epoch 215/2000
464 - 0s - loss: 1.1891e-07 - acc: 1.0000 - val_loss: 1.3115e-07 - val_acc: 1.0000
465 Epoch 216/2000
466 - 0s - loss: 1.1838e-07 - acc: 1.0000 - val_loss: 1.3034e-07 - val_acc: 1.0000
467 Epoch 217/2000
468 - 0s - loss: 1.1791e-07 - acc: 1.0000 - val_loss: 1.2941e-07 - val_acc: 1.0000
469 Epoch 218/2000
470 - 0s - loss: 1.1745e-07 - acc: 1.0000 - val_loss: 1.2859e-07 - val_acc: 1.0000
471 Epoch 219/2000
472 - 0s - loss: 1.1700e-07 - acc: 1.0000 - val_loss: 1.2782e-07 - val_acc: 1.0000
473 Epoch 220/2000
474 - 0s - loss: 1.1661e-07 - acc: 1.0000 - val_loss: 1.2705e-07 - val_acc: 1.0000
475 Epoch 221/2000
476 - 0s - loss: 1.1618e-07 - acc: 1.0000 - val_loss: 1.2643e-07 - val_acc: 1.0000
477 Epoch 222/2000
478 - 0s - loss: 1.1584e-07 - acc: 1.0000 - val_loss: 1.2576e-07 - val_acc: 1.0000
479 Epoch 223/2000
480 - 0s - loss: 1.1547e-07 - acc: 1.0000 - val_loss: 1.2504e-07 - val_acc: 1.0000
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481 Epoch 224/2000
482   - 0s - loss: 1.1512e-07 - acc: 1.0000 - val_loss: 1.2448e-07 - val_acc: 1.0000
483 Epoch 225/2000
484   - 0s - loss: 1.1482e-07 - acc: 1.0000 - val_loss: 1.2392e-07 - val_acc: 1.0000
485 Epoch 226/2000
486   - 0s - loss: 1.1452e-07 - acc: 1.0000 - val_loss: 1.2336e-07 - val_acc: 1.0000
487 Epoch 227/2000
488   - 0s - loss: 1.1422e-07 - acc: 1.0000 - val_loss: 1.2282e-07 - val_acc: 1.0000
489 Epoch 228/2000
490   - 0s - loss: 1.1397e-07 - acc: 1.0000 - val_loss: 1.2228e-07 - val_acc: 1.0000
491 Epoch 229/2000
492   - 0s - loss: 1.1374e-07 - acc: 1.0000 - val_loss: 1.2182e-07 - val_acc: 1.0000
493 Epoch 230/2000
494   - 0s - loss: 1.1353e-07 - acc: 1.0000 - val_loss: 1.2137e-07 - val_acc: 1.0000
495 Epoch 231/2000
496   - 0s - loss: 1.1333e-07 - acc: 1.0000 - val_loss: 1.2091e-07 - val_acc: 1.0000
497 Epoch 232/2000
498   - 0s - loss: 1.1314e-07 - acc: 1.0000 - val_loss: 1.2051e-07 - val_acc: 1.0000
499 Epoch 233/2000
500   - 0s - loss: 1.1293e-07 - acc: 1.0000 - val_loss: 1.2016e-07 - val_acc: 1.0000
501 Epoch 234/2000
502   - 0s - loss: 1.1275e-07 - acc: 1.0000 - val_loss: 1.1976e-07 - val_acc: 1.0000
503 Epoch 235/2000
504   - 0s - loss: 1.1257e-07 - acc: 1.0000 - val_loss: 1.1942e-07 - val_acc: 1.0000
505 Epoch 236/2000
506   - 0s - loss: 1.1241e-07 - acc: 1.0000 - val_loss: 1.1900e-07 - val_acc: 1.0000
507 Epoch 237/2000
508   - 0s - loss: 1.1226e-07 - acc: 1.0000 - val_loss: 1.1865e-07 - val_acc: 1.0000
509 Epoch 238/2000
510   - 0s - loss: 1.1212e-07 - acc: 1.0000 - val_loss: 1.1825e-07 - val_acc: 1.0000
511 Epoch 239/2000
512   - 0s - loss: 1.1197e-07 - acc: 1.0000 - val_loss: 1.1792e-07 - val_acc: 1.0000
513 Epoch 240/2000
514   - 0s - loss: 1.1186e-07 - acc: 1.0000 - val_loss: 1.1763e-07 - val_acc: 1.0000
515 Epoch 241/2000
516   - 0s - loss: 1.1174e-07 - acc: 1.0000 - val_loss: 1.1740e-07 - val_acc: 1.0000
517 Epoch 242/2000
518   - 0s - loss: 1.1163e-07 - acc: 1.0000 - val_loss: 1.1711e-07 - val_acc: 1.0000
519 Epoch 243/2000
520   - 0s - loss: 1.1153e-07 - acc: 1.0000 - val_loss: 1.1691e-07 - val_acc: 1.0000
521 Epoch 244/2000
522   - 1s - loss: 1.1142e-07 - acc: 1.0000 - val_loss: 1.1668e-07 - val_acc: 1.0000
523 Epoch 245/2000
524   - 0s - loss: 1.1133e-07 - acc: 1.0000 - val_loss: 1.1645e-07 - val_acc: 1.0000
525 Epoch 246/2000
526   - 0s - loss: 1.1124e-07 - acc: 1.0000 - val_loss: 1.1626e-07 - val_acc: 1.0000
527 Epoch 247/2000
528   - 0s - loss: 1.1115e-07 - acc: 1.0000 - val_loss: 1.1604e-07 - val_acc: 1.0000
529 Epoch 248/2000
530   - 0s - loss: 1.1108e-07 - acc: 1.0000 - val_loss: 1.1588e-07 - val_acc: 1.0000
531 Epoch 249/2000
532   - 0s - loss: 1.1100e-07 - acc: 1.0000 - val_loss: 1.1571e-07 - val_acc: 1.0000
533 Epoch 250/2000
534   - 0s - loss: 1.1093e-07 - acc: 1.0000 - val_loss: 1.1549e-07 - val_acc: 1.0000
535 Epoch 251/2000
536   - 0s - loss: 1.1086e-07 - acc: 1.0000 - val_loss: 1.1531e-07 - val_acc: 1.0000
537 Epoch 252/2000
538   - 0s - loss: 1.1079e-07 - acc: 1.0000 - val_loss: 1.1521e-07 - val_acc: 1.0000
539 Epoch 253/2000
540   - 0s - loss: 1.1073e-07 - acc: 1.0000 - val_loss: 1.1505e-07 - val_acc: 1.0000
541 Epoch 254/2000
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542 - 0s - loss: 1.1067e-07 - acc: 1.0000 - val_loss: 1.1489e-07 - val_acc: 1.0000
543 Epoch 255/2000
544 - 0s - loss: 1.1061e-07 - acc: 1.0000 - val_loss: 1.1482e-07 - val_acc: 1.0000
545 Epoch 256/2000
546 - 0s - loss: 1.1056e-07 - acc: 1.0000 - val_loss: 1.1463e-07 - val_acc: 1.0000
547 Epoch 257/2000
548 - 0s - loss: 1.1051e-07 - acc: 1.0000 - val_loss: 1.1455e-07 - val_acc: 1.0000
549 Epoch 258/2000
550 - 1s - loss: 1.1047e-07 - acc: 1.0000 - val_loss: 1.1436e-07 - val_acc: 1.0000
551 Epoch 259/2000
552 - 0s - loss: 1.1043e-07 - acc: 1.0000 - val_loss: 1.1427e-07 - val_acc: 1.0000
553 Epoch 260/2000
554 - 0s - loss: 1.1039e-07 - acc: 1.0000 - val_loss: 1.1417e-07 - val_acc: 1.0000
555 Epoch 261/2000
556 - 0s - loss: 1.1035e-07 - acc: 1.0000 - val_loss: 1.1410e-07 - val_acc: 1.0000
557 Epoch 262/2000
558 - 0s - loss: 1.1032e-07 - acc: 1.0000 - val_loss: 1.1401e-07 - val_acc: 1.0000
559 Epoch 263/2000
560 - 0s - loss: 1.1028e-07 - acc: 1.0000 - val_loss: 1.1390e-07 - val_acc: 1.0000
561 Epoch 264/2000
562 - 0s - loss: 1.1025e-07 - acc: 1.0000 - val_loss: 1.1381e-07 - val_acc: 1.0000
563 Epoch 265/2000
564 - 0s - loss: 1.1022e-07 - acc: 1.0000 - val_loss: 1.1374e-07 - val_acc: 1.0000
565 Epoch 266/2000
566 - 0s - loss: 1.1019e-07 - acc: 1.0000 - val_loss: 1.1366e-07 - val_acc: 1.0000
567 Epoch 267/2000
568 - 0s - loss: 1.1016e-07 - acc: 1.0000 - val_loss: 1.1355e-07 - val_acc: 1.0000
569 Epoch 268/2000
570 - 0s - loss: 1.1013e-07 - acc: 1.0000 - val_loss: 1.1342e-07 - val_acc: 1.0000
571 Epoch 269/2000
572 - 0s - loss: 1.1011e-07 - acc: 1.0000 - val_loss: 1.1337e-07 - val_acc: 1.0000
573 Epoch 270/2000
574 - 0s - loss: 1.1008e-07 - acc: 1.0000 - val_loss: 1.1331e-07 - val_acc: 1.0000
575 Epoch 271/2000
576 - 0s - loss: 1.1006e-07 - acc: 1.0000 - val_loss: 1.1321e-07 - val_acc: 1.0000
577 Epoch 272/2000
578 - 0s - loss: 1.1004e-07 - acc: 1.0000 - val_loss: 1.1312e-07 - val_acc: 1.0000
579 Epoch 273/2000
580 - 0s - loss: 1.1001e-07 - acc: 1.0000 - val_loss: 1.1305e-07 - val_acc: 1.0000
581 Epoch 274/2000
582 - 0s - loss: 1.0999e-07 - acc: 1.0000 - val_loss: 1.1300e-07 - val_acc: 1.0000
583 Epoch 275/2000
584 - 0s - loss: 1.0997e-07 - acc: 1.0000 - val_loss: 1.1293e-07 - val_acc: 1.0000
585 Epoch 276/2000
586 - 0s - loss: 1.0995e-07 - acc: 1.0000 - val_loss: 1.1287e-07 - val_acc: 1.0000
587 Epoch 277/2000
588 - 0s - loss: 1.0994e-07 - acc: 1.0000 - val_loss: 1.1286e-07 - val_acc: 1.0000
589 Epoch 278/2000
590 - 0s - loss: 1.0992e-07 - acc: 1.0000 - val_loss: 1.1275e-07 - val_acc: 1.0000
591 Epoch 279/2000
592 - 0s - loss: 1.0990e-07 - acc: 1.0000 - val_loss: 1.1271e-07 - val_acc: 1.0000
593 Epoch 280/2000
594 - 0s - loss: 1.0989e-07 - acc: 1.0000 - val_loss: 1.1260e-07 - val_acc: 1.0000
595 Epoch 281/2000
596 - 0s - loss: 1.0987e-07 - acc: 1.0000 - val_loss: 1.1255e-07 - val_acc: 1.0000
597 Epoch 282/2000
598 - 0s - loss: 1.0986e-07 - acc: 1.0000 - val_loss: 1.1251e-07 - val_acc: 1.0000
599 Epoch 283/2000
600 - 0s - loss: 1.0984e-07 - acc: 1.0000 - val_loss: 1.1248e-07 - val_acc: 1.0000
601 Epoch 284/2000
602 - 0s - loss: 1.0983e-07 - acc: 1.0000 - val_loss: 1.1243e-07 - val_acc: 1.0000
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603 Epoch 285/2000
604   - 0s - loss: 1.0982e-07 - acc: 1.0000 - val_loss: 1.1241e-07 - val_acc: 1.0000
605 Epoch 286/2000
606   - 0s - loss: 1.0982e-07 - acc: 1.0000 - val_loss: 1.1236e-07 - val_acc: 1.0000
607 Epoch 287/2000
608   - 0s - loss: 1.0981e-07 - acc: 1.0000 - val_loss: 1.1235e-07 - val_acc: 1.0000
609 Epoch 288/2000
610   - 0s - loss: 1.0980e-07 - acc: 1.0000 - val_loss: 1.1230e-07 - val_acc: 1.0000
611 Epoch 289/2000
612   - 0s - loss: 1.0979e-07 - acc: 1.0000 - val_loss: 1.1231e-07 - val_acc: 1.0000
613 Epoch 290/2000
614   - 0s - loss: 1.0978e-07 - acc: 1.0000 - val_loss: 1.1228e-07 - val_acc: 1.0000
615 Epoch 291/2000
616   - 1s - loss: 1.0977e-07 - acc: 1.0000 - val_loss: 1.1223e-07 - val_acc: 1.0000
617 Epoch 292/2000
618   - 0s - loss: 1.0976e-07 - acc: 1.0000 - val_loss: 1.1214e-07 - val_acc: 1.0000
619 Epoch 293/2000
620   - 0s - loss: 1.0975e-07 - acc: 1.0000 - val_loss: 1.1209e-07 - val_acc: 1.0000
621 Epoch 294/2000
622   - 0s - loss: 1.0975e-07 - acc: 1.0000 - val_loss: 1.1210e-07 - val_acc: 1.0000
623 Epoch 295/2000
624   - 1s - loss: 1.0974e-07 - acc: 1.0000 - val_loss: 1.1203e-07 - val_acc: 1.0000
625 Epoch 296/2000
626   - 0s - loss: 1.0973e-07 - acc: 1.0000 - val_loss: 1.1210e-07 - val_acc: 1.0000
627 Epoch 297/2000
628   - 1s - loss: 1.0972e-07 - acc: 1.0000 - val_loss: 1.1206e-07 - val_acc: 1.0000
629 Epoch 298/2000
630   - 0s - loss: 1.0972e-07 - acc: 1.0000 - val_loss: 1.1204e-07 - val_acc: 1.0000
631 Epoch 299/2000
632   - 0s - loss: 1.0971e-07 - acc: 1.0000 - val_loss: 1.1202e-07 - val_acc: 1.0000
633 Epoch 300/2000
634   - 0s - loss: 1.0970e-07 - acc: 1.0000 - val_loss: 1.1196e-07 - val_acc: 1.0000
635 Epoch 301/2000
636   - 0s - loss: 1.0970e-07 - acc: 1.0000 - val_loss: 1.1197e-07 - val_acc: 1.0000
637 Epoch 302/2000
638   - 0s - loss: 1.0969e-07 - acc: 1.0000 - val_loss: 1.1193e-07 - val_acc: 1.0000
639 Epoch 303/2000
640   - 0s - loss: 1.0969e-07 - acc: 1.0000 - val_loss: 1.1189e-07 - val_acc: 1.0000
641 Epoch 304/2000
642   - 0s - loss: 1.0968e-07 - acc: 1.0000 - val_loss: 1.1192e-07 - val_acc: 1.0000
643 Epoch 305/2000
644   - 1s - loss: 1.0968e-07 - acc: 1.0000 - val_loss: 1.1191e-07 - val_acc: 1.0000
645 Epoch 306/2000
646   - 0s - loss: 1.0967e-07 - acc: 1.0000 - val_loss: 1.1186e-07 - val_acc: 1.0000
647 Epoch 307/2000
648   - 0s - loss: 1.0967e-07 - acc: 1.0000 - val_loss: 1.1188e-07 - val_acc: 1.0000
649 Epoch 308/2000
650   - 0s - loss: 1.0966e-07 - acc: 1.0000 - val_loss: 1.1184e-07 - val_acc: 1.0000
651 Epoch 309/2000
652   - 0s - loss: 1.0966e-07 - acc: 1.0000 - val_loss: 1.1183e-07 - val_acc: 1.0000
653 Epoch 310/2000
654   - 0s - loss: 1.0966e-07 - acc: 1.0000 - val_loss: 1.1184e-07 - val_acc: 1.0000
655 Epoch 311/2000
656   - 0s - loss: 1.0965e-07 - acc: 1.0000 - val_loss: 1.1183e-07 - val_acc: 1.0000
657 Epoch 312/2000
658   - 0s - loss: 1.0965e-07 - acc: 1.0000 - val_loss: 1.1180e-07 - val_acc: 1.0000
659 Epoch 313/2000
660   - 0s - loss: 1.0965e-07 - acc: 1.0000 - val_loss: 1.1179e-07 - val_acc: 1.0000
661 Epoch 314/2000
662   - 0s - loss: 1.0965e-07 - acc: 1.0000 - val_loss: 1.1178e-07 - val_acc: 1.0000
663 Epoch 315/2000
```

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```
664 - 0s - loss: 1.0964e-07 - acc: 1.0000 - val_loss: 1.1179e-07 - val_acc: 1.0000
665 Epoch 316/2000
666 - 1s - loss: 1.0964e-07 - acc: 1.0000 - val_loss: 1.1174e-07 - val_acc: 1.0000
667 Epoch 317/2000
668 - 0s - loss: 1.0964e-07 - acc: 1.0000 - val_loss: 1.1175e-07 - val_acc: 1.0000
669 Epoch 318/2000
670 - 0s - loss: 1.0963e-07 - acc: 1.0000 - val_loss: 1.1174e-07 - val_acc: 1.0000
671 Epoch 319/2000
672 - 0s - loss: 1.0963e-07 - acc: 1.0000 - val_loss: 1.1173e-07 - val_acc: 1.0000
673 Epoch 320/2000
674 - 0s - loss: 1.0963e-07 - acc: 1.0000 - val_loss: 1.1173e-07 - val_acc: 1.0000
675 Epoch 321/2000
676 - 0s - loss: 1.0963e-07 - acc: 1.0000 - val_loss: 1.1172e-07 - val_acc: 1.0000
677 Epoch 322/2000
678 - 0s - loss: 1.0963e-07 - acc: 1.0000 - val_loss: 1.1171e-07 - val_acc: 1.0000
679 Epoch 323/2000
680 - 0s - loss: 1.0962e-07 - acc: 1.0000 - val_loss: 1.1170e-07 - val_acc: 1.0000
681 Epoch 324/2000
682 - 0s - loss: 1.0962e-07 - acc: 1.0000 - val_loss: 1.1165e-07 - val_acc: 1.0000
683 Epoch 325/2000
684 - 0s - loss: 1.0962e-07 - acc: 1.0000 - val_loss: 1.1167e-07 - val_acc: 1.0000
685 Epoch 326/2000
686 - 0s - loss: 1.0962e-07 - acc: 1.0000 - val_loss: 1.1166e-07 - val_acc: 1.0000
687 Epoch 327/2000
688 - 0s - loss: 1.0962e-07 - acc: 1.0000 - val_loss: 1.1168e-07 - val_acc: 1.0000
689 Epoch 328/2000
690 - 0s - loss: 1.0962e-07 - acc: 1.0000 - val_loss: 1.1167e-07 - val_acc: 1.0000
691 Epoch 329/2000
692 - 0s - loss: 1.0961e-07 - acc: 1.0000 - val_loss: 1.1164e-07 - val_acc: 1.0000
693 Epoch 330/2000
694 - 0s - loss: 1.0961e-07 - acc: 1.0000 - val_loss: 1.1164e-07 - val_acc: 1.0000
695 Epoch 331/2000
696 - 0s - loss: 1.0961e-07 - acc: 1.0000 - val_loss: 1.1165e-07 - val_acc: 1.0000
697 Epoch 332/2000
698 - 0s - loss: 1.0961e-07 - acc: 1.0000 - val_loss: 1.1162e-07 - val_acc: 1.0000
699 Epoch 333/2000
700 - 0s - loss: 1.0961e-07 - acc: 1.0000 - val_loss: 1.1162e-07 - val_acc: 1.0000
701 Epoch 334/2000
702 - 0s - loss: 1.0961e-07 - acc: 1.0000 - val_loss: 1.1164e-07 - val_acc: 1.0000
703 Epoch 335/2000
704 - 0s - loss: 1.0961e-07 - acc: 1.0000 - val_loss: 1.1158e-07 - val_acc: 1.0000
705 Epoch 336/2000
706 - 1s - loss: 1.0960e-07 - acc: 1.0000 - val_loss: 1.1153e-07 - val_acc: 1.0000
707 Epoch 337/2000
708 - 0s - loss: 1.0960e-07 - acc: 1.0000 - val_loss: 1.1150e-07 - val_acc: 1.0000
709 Epoch 338/2000
710 - 0s - loss: 1.0960e-07 - acc: 1.0000 - val_loss: 1.1152e-07 - val_acc: 1.0000
711 Epoch 339/2000
712 - 0s - loss: 1.0960e-07 - acc: 1.0000 - val_loss: 1.1152e-07 - val_acc: 1.0000
713 Epoch 340/2000
714 - 0s - loss: 1.0960e-07 - acc: 1.0000 - val_loss: 1.1155e-07 - val_acc: 1.0000
715 Epoch 341/2000
716 - 0s - loss: 1.0960e-07 - acc: 1.0000 - val_loss: 1.1155e-07 - val_acc: 1.0000
717 Epoch 342/2000
718 - 0s - loss: 1.0960e-07 - acc: 1.0000 - val_loss: 1.1155e-07 - val_acc: 1.0000
719 Epoch 343/2000
720 - 0s - loss: 1.0960e-07 - acc: 1.0000 - val_loss: 1.1147e-07 - val_acc: 1.0000
721 Epoch 344/2000
722 - 0s - loss: 1.0959e-07 - acc: 1.0000 - val_loss: 1.1144e-07 - val_acc: 1.0000
723 Epoch 345/2000
724 - 0s - loss: 1.0959e-07 - acc: 1.0000 - val_loss: 1.1146e-07 - val_acc: 1.0000
```

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```
725 Epoch 346/2000
726   - 0s - loss: 1.0959e-07 - acc: 1.0000 - val_loss: 1.1146e-07 - val_acc: 1.0000
727 Epoch 347/2000
728   - 0s - loss: 1.0959e-07 - acc: 1.0000 - val_loss: 1.1146e-07 - val_acc: 1.0000
729 Epoch 348/2000
730   - 0s - loss: 1.0959e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
731 Epoch 349/2000
732   - 0s - loss: 1.0959e-07 - acc: 1.0000 - val_loss: 1.1147e-07 - val_acc: 1.0000
733 Epoch 350/2000
734   - 0s - loss: 1.0959e-07 - acc: 1.0000 - val_loss: 1.1147e-07 - val_acc: 1.0000
735 Epoch 351/2000
736   - 0s - loss: 1.0959e-07 - acc: 1.0000 - val_loss: 1.1149e-07 - val_acc: 1.0000
737 Epoch 352/2000
738   - 0s - loss: 1.0959e-07 - acc: 1.0000 - val_loss: 1.1149e-07 - val_acc: 1.0000
739 Epoch 353/2000
740   - 0s - loss: 1.0959e-07 - acc: 1.0000 - val_loss: 1.1148e-07 - val_acc: 1.0000
741 Epoch 354/2000
742   - 0s - loss: 1.0959e-07 - acc: 1.0000 - val_loss: 1.1155e-07 - val_acc: 1.0000
743 Epoch 355/2000
744   - 0s - loss: 1.0959e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
745 Epoch 356/2000
746   - 0s - loss: 1.0959e-07 - acc: 1.0000 - val_loss: 1.1143e-07 - val_acc: 1.0000
747 Epoch 357/2000
748   - 0s - loss: 1.0959e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
749 Epoch 358/2000
750   - 0s - loss: 1.0959e-07 - acc: 1.0000 - val_loss: 1.1142e-07 - val_acc: 1.0000
751 Epoch 359/2000
752   - 0s - loss: 1.0959e-07 - acc: 1.0000 - val_loss: 1.1142e-07 - val_acc: 1.0000
753 Epoch 360/2000
754   - 0s - loss: 1.0959e-07 - acc: 1.0000 - val_loss: 1.1144e-07 - val_acc: 1.0000
755 Epoch 361/2000
756   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1142e-07 - val_acc: 1.0000
757 Epoch 362/2000
758   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1142e-07 - val_acc: 1.0000
759 Epoch 363/2000
760   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1141e-07 - val_acc: 1.0000
761 Epoch 364/2000
762   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1143e-07 - val_acc: 1.0000
763 Epoch 365/2000
764   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1143e-07 - val_acc: 1.0000
765 Epoch 366/2000
766   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1143e-07 - val_acc: 1.0000
767 Epoch 367/2000
768   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1143e-07 - val_acc: 1.0000
769 Epoch 368/2000
770   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1143e-07 - val_acc: 1.0000
771 Epoch 369/2000
772   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
773 Epoch 370/2000
774   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1148e-07 - val_acc: 1.0000
775 Epoch 371/2000
776   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1147e-07 - val_acc: 1.0000
777 Epoch 372/2000
778   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1147e-07 - val_acc: 1.0000
779 Epoch 373/2000
780   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1147e-07 - val_acc: 1.0000
781 Epoch 374/2000
782   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1147e-07 - val_acc: 1.0000
783 Epoch 375/2000
784   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1147e-07 - val_acc: 1.0000
785 Epoch 376/2000
```

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```
786 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1147e-07 - val_acc: 1.0000
787 Epoch 377/2000
788 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1147e-07 - val_acc: 1.0000
789 Epoch 378/2000
790 - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1147e-07 - val_acc: 1.0000
791 Epoch 379/2000
792 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1147e-07 - val_acc: 1.0000
793 Epoch 380/2000
794 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1147e-07 - val_acc: 1.0000
795 Epoch 381/2000
796 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1147e-07 - val_acc: 1.0000
797 Epoch 382/2000
798 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1146e-07 - val_acc: 1.0000
799 Epoch 383/2000
800 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1146e-07 - val_acc: 1.0000
801 Epoch 384/2000
802 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1146e-07 - val_acc: 1.0000
803 Epoch 385/2000
804 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1146e-07 - val_acc: 1.0000
805 Epoch 386/2000
806 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1146e-07 - val_acc: 1.0000
807 Epoch 387/2000
808 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1146e-07 - val_acc: 1.0000
809 Epoch 388/2000
810 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1146e-07 - val_acc: 1.0000
811 Epoch 389/2000
812 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1146e-07 - val_acc: 1.0000
813 Epoch 390/2000
814 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1146e-07 - val_acc: 1.0000
815 Epoch 391/2000
816 - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1144e-07 - val_acc: 1.0000
817 Epoch 392/2000
818 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1141e-07 - val_acc: 1.0000
819 Epoch 393/2000
820 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1141e-07 - val_acc: 1.0000
821 Epoch 394/2000
822 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1141e-07 - val_acc: 1.0000
823 Epoch 395/2000
824 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1141e-07 - val_acc: 1.0000
825 Epoch 396/2000
826 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1141e-07 - val_acc: 1.0000
827 Epoch 397/2000
828 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1141e-07 - val_acc: 1.0000
829 Epoch 398/2000
830 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1143e-07 - val_acc: 1.0000
831 Epoch 399/2000
832 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1143e-07 - val_acc: 1.0000
833 Epoch 400/2000
834 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1143e-07 - val_acc: 1.0000
835 Epoch 401/2000
836 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1143e-07 - val_acc: 1.0000
837 Epoch 402/2000
838 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1143e-07 - val_acc: 1.0000
839 Epoch 403/2000
840 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
841 Epoch 404/2000
842 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
843 Epoch 405/2000
844 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
845 Epoch 406/2000
846 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
```

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847 Epoch 407/2000
848   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
849 Epoch 408/2000
850   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
851 Epoch 409/2000
852   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
853 Epoch 410/2000
854   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
855 Epoch 411/2000
856   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
857 Epoch 412/2000
858   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
859 Epoch 413/2000
860   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
861 Epoch 414/2000
862   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
863 Epoch 415/2000
864   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
865 Epoch 416/2000
866   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
867 Epoch 417/2000
868   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
869 Epoch 418/2000
870   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
871 Epoch 419/2000
872   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
873 Epoch 420/2000
874   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
875 Epoch 421/2000
876   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
877 Epoch 422/2000
878   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
879 Epoch 423/2000
880   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
881 Epoch 424/2000
882   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
883 Epoch 425/2000
884   - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
885 Epoch 426/2000
886   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
887 Epoch 427/2000
888   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
889 Epoch 428/2000
890   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
891 Epoch 429/2000
892   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
893 Epoch 430/2000
894   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
895 Epoch 431/2000
896   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
897 Epoch 432/2000
898   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
899 Epoch 433/2000
900   - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
901 Epoch 434/2000
902   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
903 Epoch 435/2000
904   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
905 Epoch 436/2000
906   - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
907 Epoch 437/2000
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[illegible]

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```
969 Epoch 468/2000
970   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
971 Epoch 469/2000
972   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
973 Epoch 470/2000
974   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
975 Epoch 471/2000
976   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
977 Epoch 472/2000
978   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
979 Epoch 473/2000
980   - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
981 Epoch 474/2000
982   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
983 Epoch 475/2000
984   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
985 Epoch 476/2000
986   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
987 Epoch 477/2000
988   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
989 Epoch 478/2000
990   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
991 Epoch 479/2000
992   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
993 Epoch 480/2000
994   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
995 Epoch 481/2000
996   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
997 Epoch 482/2000
998   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
999 Epoch 483/2000
1000  - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1001 Epoch 484/2000
1002  - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1003 Epoch 485/2000
1004  - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1005 Epoch 486/2000
1006  - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1007 Epoch 487/2000
1008  - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1009 Epoch 488/2000
1010  - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1011 Epoch 489/2000
1012  - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1013 Epoch 490/2000
1014  - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1015 Epoch 491/2000
1016  - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1017 Epoch 492/2000
1018  - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1019 Epoch 493/2000
1020  - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1021 Epoch 494/2000
1022  - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1023 Epoch 495/2000
1024  - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1025 Epoch 496/2000
1026  - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1027 Epoch 497/2000
1028  - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1029 Epoch 498/2000
```

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```
1091 Epoch 529/2000
1092   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1093 Epoch 530/2000
1094   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1095 Epoch 531/2000
1096   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1097 Epoch 532/2000
1098   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1099 Epoch 533/2000
1100   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1101 Epoch 534/2000
1102   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1103 Epoch 535/2000
1104   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1105 Epoch 536/2000
1106   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1107 Epoch 537/2000
1108   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1109 Epoch 538/2000
1110   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1111 Epoch 539/2000
1112   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1113 Epoch 540/2000
1114   - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1115 Epoch 541/2000
1116   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1117 Epoch 542/2000
1118   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1119 Epoch 543/2000
1120   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1121 Epoch 544/2000
1122   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1123 Epoch 545/2000
1124   - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1125 Epoch 546/2000
1126   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1127 Epoch 547/2000
1128   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1129 Epoch 548/2000
1130   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1131 Epoch 549/2000
1132   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1133 Epoch 550/2000
1134   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1135 Epoch 551/2000
1136   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1137 Epoch 552/2000
1138   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1139 Epoch 553/2000
1140   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1141 Epoch 554/2000
1142   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1143 Epoch 555/2000
1144   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1145 Epoch 556/2000
1146   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1147 Epoch 557/2000
1148   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1149 Epoch 558/2000
1150   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1151 Epoch 559/2000
```

[illegible]

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```
1213 Epoch 590/2000
1214   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1215 Epoch 591/2000
1216   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1217 Epoch 592/2000
1218   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1219 Epoch 593/2000
1220   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1221 Epoch 594/2000
1222   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1223 Epoch 595/2000
1224   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1225 Epoch 596/2000
1226   - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1227 Epoch 597/2000
1228   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1229 Epoch 598/2000
1230   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1231 Epoch 599/2000
1232   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1233 Epoch 600/2000
1234   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1235 Epoch 601/2000
1236   - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1237 Epoch 602/2000
1238   - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1239 Epoch 603/2000
1240   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1241 Epoch 604/2000
1242   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1243 Epoch 605/2000
1244   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1245 Epoch 606/2000
1246   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1247 Epoch 607/2000
1248   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1249 Epoch 608/2000
1250   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1251 Epoch 609/2000
1252   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1253 Epoch 610/2000
1254   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1255 Epoch 611/2000
1256   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1257 Epoch 612/2000
1258   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1259 Epoch 613/2000
1260   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1261 Epoch 614/2000
1262   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1263 Epoch 615/2000
1264   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1265 Epoch 616/2000
1266   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1267 Epoch 617/2000
1268   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1269 Epoch 618/2000
1270   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1271 Epoch 619/2000
1272   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1273 Epoch 620/2000
```

[illegible]

[illegible]

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```
1396 - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1397 Epoch 682/2000
1398 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1399 Epoch 683/2000
1400 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1401 Epoch 684/2000
1402 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1403 Epoch 685/2000
1404 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1405 Epoch 686/2000
1406 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1407 Epoch 687/2000
1408 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1409 Epoch 688/2000
1410 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1411 Epoch 689/2000
1412 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1413 Epoch 690/2000
1414 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1415 Epoch 691/2000
1416 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1417 Epoch 692/2000
1418 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1419 Epoch 693/2000
1420 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1421 Epoch 694/2000
1422 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1423 Epoch 695/2000
1424 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1425 Epoch 696/2000
1426 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1427 Epoch 697/2000
1428 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1429 Epoch 698/2000
1430 - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1431 Epoch 699/2000
1432 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1433 Epoch 700/2000
1434 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1435 Epoch 701/2000
1436 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1437 Epoch 702/2000
1438 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1439 Epoch 703/2000
1440 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1441 Epoch 704/2000
1442 - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1443 Epoch 705/2000
1444 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1445 Epoch 706/2000
1446 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1447 Epoch 707/2000
1448 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1449 Epoch 708/2000
1450 - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1451 Epoch 709/2000
1452 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1453 Epoch 710/2000
1454 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1455 Epoch 711/2000
1456 - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
```


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1457 Epoch 712/2000
1458   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1459 Epoch 713/2000
1460   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1461 Epoch 714/2000
1462   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1463 Epoch 715/2000
1464   - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1465 Epoch 716/2000
1466   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1467 Epoch 717/2000
1468   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1469 Epoch 718/2000
1470   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1471 Epoch 719/2000
1472   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1473 Epoch 720/2000
1474   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1475 Epoch 721/2000
1476   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1477 Epoch 722/2000
1478   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1479 Epoch 723/2000
1480   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1481 Epoch 724/2000
1482   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1483 Epoch 725/2000
1484   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1485 Epoch 726/2000
1486   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1487 Epoch 727/2000
1488   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1489 Epoch 728/2000
1490   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1491 Epoch 729/2000
1492   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1493 Epoch 730/2000
1494   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1495 Epoch 731/2000
1496   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1497 Epoch 732/2000
1498   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1499 Epoch 733/2000
1500   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1501 Epoch 734/2000
1502   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1503 Epoch 735/2000
1504   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1505 Epoch 736/2000
1506   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1507 Epoch 737/2000
1508   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1509 Epoch 738/2000
1510   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1511 Epoch 739/2000
1512   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1513 Epoch 740/2000
1514   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1515 Epoch 741/2000
1516   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1517 Epoch 742/2000
```

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```
1579 Epoch 773/2000
1580   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1581 Epoch 774/2000
1582   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1583 Epoch 775/2000
1584   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1585 Epoch 776/2000
1586   - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1587 Epoch 777/2000
1588   - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1589 Epoch 778/2000
1590   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1591 Epoch 779/2000
1592   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1593 Epoch 780/2000
1594   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1595 Epoch 781/2000
1596   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1597 Epoch 782/2000
1598   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1599 Epoch 783/2000
1600   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1601 Epoch 784/2000
1602   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1603 Epoch 785/2000
1604   - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1605 Epoch 786/2000
1606   - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1607 Epoch 787/2000
1608   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1609 Epoch 788/2000
1610   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1611 Epoch 789/2000
1612   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1613 Epoch 790/2000
1614   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1615 Epoch 791/2000
1616   - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1617 Epoch 792/2000
1618   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1619 Epoch 793/2000
1620   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1621 Epoch 794/2000
1622   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1623 Epoch 795/2000
1624   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1625 Epoch 796/2000
1626   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1627 Epoch 797/2000
1628   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1629 Epoch 798/2000
1630   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1631 Epoch 799/2000
1632   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1633 Epoch 800/2000
1634   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1635 Epoch 801/2000
1636   - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1637 Epoch 802/2000
1638   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1639 Epoch 803/2000
```

[illegible]

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```
1701 Epoch 834/2000
1702   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1703 Epoch 835/2000
1704   - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1705 Epoch 836/2000
1706   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1707 Epoch 837/2000
1708   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1709 Epoch 838/2000
1710   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1711 Epoch 839/2000
1712   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1713 Epoch 840/2000
1714   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1715 Epoch 841/2000
1716   - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1717 Epoch 842/2000
1718   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1719 Epoch 843/2000
1720   - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1721 Epoch 844/2000
1722   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1723 Epoch 845/2000
1724   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1725 Epoch 846/2000
1726   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1727 Epoch 847/2000
1728   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1729 Epoch 848/2000
1730   - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1731 Epoch 849/2000
1732   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1733 Epoch 850/2000
1734   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1735 Epoch 851/2000
1736   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1737 Epoch 852/2000
1738   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1739 Epoch 853/2000
1740   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1741 Epoch 854/2000
1742   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1743 Epoch 855/2000
1744   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1745 Epoch 856/2000
1746   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1747 Epoch 857/2000
1748   - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1749 Epoch 858/2000
1750   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1751 Epoch 859/2000
1752   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1753 Epoch 860/2000
1754   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1755 Epoch 861/2000
1756   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1757 Epoch 862/2000
1758   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1759 Epoch 863/2000
1760   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1761 Epoch 864/2000
```

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```
1762 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1763 Epoch 865/2000
1764 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1765 Epoch 866/2000
1766 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1767 Epoch 867/2000
1768 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1769 Epoch 868/2000
1770 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1771 Epoch 869/2000
1772 - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1773 Epoch 870/2000
1774 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1775 Epoch 871/2000
1776 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1777 Epoch 872/2000
1778 - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1779 Epoch 873/2000
1780 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1781 Epoch 874/2000
1782 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1783 Epoch 875/2000
1784 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1785 Epoch 876/2000
1786 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1787 Epoch 877/2000
1788 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1789 Epoch 878/2000
1790 - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1791 Epoch 879/2000
1792 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1793 Epoch 880/2000
1794 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1795 Epoch 881/2000
1796 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1797 Epoch 882/2000
1798 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1799 Epoch 883/2000
1800 - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1801 Epoch 884/2000
1802 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1803 Epoch 885/2000
1804 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1805 Epoch 886/2000
1806 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1807 Epoch 887/2000
1808 - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1809 Epoch 888/2000
1810 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1811 Epoch 889/2000
1812 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1813 Epoch 890/2000
1814 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1815 Epoch 891/2000
1816 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1817 Epoch 892/2000
1818 - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1819 Epoch 893/2000
1820 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1821 Epoch 894/2000
1822 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
```

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```
1884 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1885 Epoch 926/2000
1886 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1887 Epoch 927/2000
1888 - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1889 Epoch 928/2000
1890 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1891 Epoch 929/2000
1892 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1893 Epoch 930/2000
1894 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1895 Epoch 931/2000
1896 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1897 Epoch 932/2000
1898 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1899 Epoch 933/2000
1900 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1901 Epoch 934/2000
1902 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1903 Epoch 935/2000
1904 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1905 Epoch 936/2000
1906 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1907 Epoch 937/2000
1908 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1909 Epoch 938/2000
1910 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1911 Epoch 939/2000
1912 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1913 Epoch 940/2000
1914 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1915 Epoch 941/2000
1916 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1917 Epoch 942/2000
1918 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1919 Epoch 943/2000
1920 - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1921 Epoch 944/2000
1922 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1923 Epoch 945/2000
1924 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1925 Epoch 946/2000
1926 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1927 Epoch 947/2000
1928 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1929 Epoch 948/2000
1930 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1931 Epoch 949/2000
1932 - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1933 Epoch 950/2000
1934 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1935 Epoch 951/2000
1936 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1937 Epoch 952/2000
1938 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1939 Epoch 953/2000
1940 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1941 Epoch 954/2000
1942 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1943 Epoch 955/2000
1944 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
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1945 Epoch 956/2000
1946 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1947 Epoch 957/2000
1948 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1949 Epoch 958/2000
1950 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1951 Epoch 959/2000
1952 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1953 Epoch 960/2000
1954 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1955 Epoch 961/2000
1956 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1957 Epoch 962/2000
1958 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1959 Epoch 963/2000
1960 - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1961 Epoch 964/2000
1962 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1963 Epoch 965/2000
1964 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1965 Epoch 966/2000
1966 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1967 Epoch 967/2000
1968 - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1969 Epoch 968/2000
1970 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1971 Epoch 969/2000
1972 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1973 Epoch 970/2000
1974 - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1975 Epoch 971/2000
1976 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1977 Epoch 972/2000
1978 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1979 Epoch 973/2000
1980 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1981 Epoch 974/2000
1982 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1983 Epoch 975/2000
1984 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1985 Epoch 976/2000
1986 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1987 Epoch 977/2000
1988 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1989 Epoch 978/2000
1990 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1991 Epoch 979/2000
1992 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1993 Epoch 980/2000
1994 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1995 Epoch 981/2000
1996 - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1997 Epoch 982/2000
1998 - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
1999 Epoch 983/2000
2000 - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2001 Epoch 984/2000
2002 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2003 Epoch 985/2000
2004 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2005 Epoch 986/2000
```

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```
2006 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2007 Epoch 987/2000
2008 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2009 Epoch 988/2000
2010 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2011 Epoch 989/2000
2012 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2013 Epoch 990/2000
2014 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2015 Epoch 991/2000
2016 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2017 Epoch 992/2000
2018 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2019 Epoch 993/2000
2020 - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2021 Epoch 994/2000
2022 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2023 Epoch 995/2000
2024 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2025 Epoch 996/2000
2026 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2027 Epoch 997/2000
2028 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2029 Epoch 998/2000
2030 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2031 Epoch 999/2000
2032 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2033 Epoch 1000/2000
2034 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2035 Epoch 1001/2000
2036 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2037 Epoch 1002/2000
2038 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2039 Epoch 1003/2000
2040 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2041 Epoch 1004/2000
2042 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2043 Epoch 1005/2000
2044 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2045 Epoch 1006/2000
2046 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2047 Epoch 1007/2000
2048 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2049 Epoch 1008/2000
2050 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2051 Epoch 1009/2000
2052 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2053 Epoch 1010/2000
2054 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2055 Epoch 1011/2000
2056 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2057 Epoch 1012/2000
2058 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2059 Epoch 1013/2000
2060 - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2061 Epoch 1014/2000
2062 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2063 Epoch 1015/2000
2064 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2065 Epoch 1016/2000
2066 - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
```

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```
2067 Epoch 1017/2000
2068   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2069 Epoch 1018/2000
2070   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2071 Epoch 1019/2000
2072   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2073 Epoch 1020/2000
2074   - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2075 Epoch 1021/2000
2076   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2077 Epoch 1022/2000
2078   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2079 Epoch 1023/2000
2080   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2081 Epoch 1024/2000
2082   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2083 Epoch 1025/2000
2084   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2085 Epoch 1026/2000
2086   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2087 Epoch 1027/2000
2088   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2089 Epoch 1028/2000
2090   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2091 Epoch 1029/2000
2092   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2093 Epoch 1030/2000
2094   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2095 Epoch 1031/2000
2096   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2097 Epoch 1032/2000
2098   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2099 Epoch 1033/2000
2100   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2101 Epoch 1034/2000
2102   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2103 Epoch 1035/2000
2104   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2105 Epoch 1036/2000
2106   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2107 Epoch 1037/2000
2108   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2109 Epoch 1038/2000
2110   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2111 Epoch 1039/2000
2112   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2113 Epoch 1040/2000
2114   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2115 Epoch 1041/2000
2116   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2117 Epoch 1042/2000
2118   - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2119 Epoch 1043/2000
2120   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2121 Epoch 1044/2000
2122   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2123 Epoch 1045/2000
2124   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2125 Epoch 1046/2000
2126   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2127 Epoch 1047/2000
```

[illegible]

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```
2189 Epoch 1078/2000
2190 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2191 Epoch 1079/2000
2192 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2193 Epoch 1080/2000
2194 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2195 Epoch 1081/2000
2196 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2197 Epoch 1082/2000
2198 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2199 Epoch 1083/2000
2200 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2201 Epoch 1084/2000
2202 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2203 Epoch 1085/2000
2204 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2205 Epoch 1086/2000
2206 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2207 Epoch 1087/2000
2208 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2209 Epoch 1088/2000
2210 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2211 Epoch 1089/2000
2212 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2213 Epoch 1090/2000
2214 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2215 Epoch 1091/2000
2216 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2217 Epoch 1092/2000
2218 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2219 Epoch 1093/2000
2220 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2221 Epoch 1094/2000
2222 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2223 Epoch 1095/2000
2224 - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2225 Epoch 1096/2000
2226 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2227 Epoch 1097/2000
2228 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2229 Epoch 1098/2000
2230 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2231 Epoch 1099/2000
2232 - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2233 Epoch 1100/2000
2234 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2235 Epoch 1101/2000
2236 - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2237 Epoch 1102/2000
2238 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2239 Epoch 1103/2000
2240 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2241 Epoch 1104/2000
2242 - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2243 Epoch 1105/2000
2244 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2245 Epoch 1106/2000
2246 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2247 Epoch 1107/2000
2248 - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2249 Epoch 1108/2000
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2250 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2251 Epoch 1109/2000
2252 - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2253 Epoch 1110/2000
2254 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2255 Epoch 1111/2000
2256 - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2257 Epoch 1112/2000
2258 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2259 Epoch 1113/2000
2260 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2261 Epoch 1114/2000
2262 - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2263 Epoch 1115/2000
2264 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2265 Epoch 1116/2000
2266 - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2267 Epoch 1117/2000
2268 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2269 Epoch 1118/2000
2270 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2271 Epoch 1119/2000
2272 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2273 Epoch 1120/2000
2274 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2275 Epoch 1121/2000
2276 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2277 Epoch 1122/2000
2278 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2279 Epoch 1123/2000
2280 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2281 Epoch 1124/2000
2282 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2283 Epoch 1125/2000
2284 - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2285 Epoch 1126/2000
2286 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2287 Epoch 1127/2000
2288 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2289 Epoch 1128/2000
2290 - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2291 Epoch 1129/2000
2292 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2293 Epoch 1130/2000
2294 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2295 Epoch 1131/2000
2296 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2297 Epoch 1132/2000
2298 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2299 Epoch 1133/2000
2300 - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2301 Epoch 1134/2000
2302 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2303 Epoch 1135/2000
2304 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2305 Epoch 1136/2000
2306 - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2307 Epoch 1137/2000
2308 - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2309 Epoch 1138/2000
2310 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
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2311 Epoch 1139/2000
2312   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2313 Epoch 1140/2000
2314   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2315 Epoch 1141/2000
2316   - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2317 Epoch 1142/2000
2318   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2319 Epoch 1143/2000
2320   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2321 Epoch 1144/2000
2322   - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2323 Epoch 1145/2000
2324   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2325 Epoch 1146/2000
2326   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2327 Epoch 1147/2000
2328   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2329 Epoch 1148/2000
2330   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2331 Epoch 1149/2000
2332   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2333 Epoch 1150/2000
2334   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2335 Epoch 1151/2000
2336   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2337 Epoch 1152/2000
2338   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2339 Epoch 1153/2000
2340   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2341 Epoch 1154/2000
2342   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2343 Epoch 1155/2000
2344   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2345 Epoch 1156/2000
2346   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2347 Epoch 1157/2000
2348   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2349 Epoch 1158/2000
2350   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2351 Epoch 1159/2000
2352   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2353 Epoch 1160/2000
2354   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2355 Epoch 1161/2000
2356   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2357 Epoch 1162/2000
2358   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2359 Epoch 1163/2000
2360   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2361 Epoch 1164/2000
2362   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2363 Epoch 1165/2000
2364   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2365 Epoch 1166/2000
2366   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2367 Epoch 1167/2000
2368   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2369 Epoch 1168/2000
2370   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2371 Epoch 1169/2000
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2372 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2373 Epoch 1170/2000
2374 - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2375 Epoch 1171/2000
2376 - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2377 Epoch 1172/2000
2378 - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2379 Epoch 1173/2000
2380 - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2381 Epoch 1174/2000
2382 - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2383 Epoch 1175/2000
2384 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2385 Epoch 1176/2000
2386 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2387 Epoch 1177/2000
2388 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2389 Epoch 1178/2000
2390 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2391 Epoch 1179/2000
2392 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2393 Epoch 1180/2000
2394 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2395 Epoch 1181/2000
2396 - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2397 Epoch 1182/2000
2398 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2399 Epoch 1183/2000
2400 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2401 Epoch 1184/2000
2402 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2403 Epoch 1185/2000
2404 - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2405 Epoch 1186/2000
2406 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2407 Epoch 1187/2000
2408 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2409 Epoch 1188/2000
2410 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2411 Epoch 1189/2000
2412 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2413 Epoch 1190/2000
2414 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2415 Epoch 1191/2000
2416 - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2417 Epoch 1192/2000
2418 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2419 Epoch 1193/2000
2420 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2421 Epoch 1194/2000
2422 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2423 Epoch 1195/2000
2424 - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2425 Epoch 1196/2000
2426 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2427 Epoch 1197/2000
2428 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2429 Epoch 1198/2000
2430 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2431 Epoch 1199/2000
2432 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
```


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2433 Epoch 1200/2000
2434   - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2435 Epoch 1201/2000
2436   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2437 Epoch 1202/2000
2438   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2439 Epoch 1203/2000
2440   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2441 Epoch 1204/2000
2442   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2443 Epoch 1205/2000
2444   - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2445 Epoch 1206/2000
2446   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2447 Epoch 1207/2000
2448   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2449 Epoch 1208/2000
2450   - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2451 Epoch 1209/2000
2452   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2453 Epoch 1210/2000
2454   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2455 Epoch 1211/2000
2456   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2457 Epoch 1212/2000
2458   - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2459 Epoch 1213/2000
2460   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2461 Epoch 1214/2000
2462   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2463 Epoch 1215/2000
2464   - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2465 Epoch 1216/2000
2466   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2467 Epoch 1217/2000
2468   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2469 Epoch 1218/2000
2470   - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2471 Epoch 1219/2000
2472   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2473 Epoch 1220/2000
2474   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2475 Epoch 1221/2000
2476   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2477 Epoch 1222/2000
2478   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2479 Epoch 1223/2000
2480   - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2481 Epoch 1224/2000
2482   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2483 Epoch 1225/2000
2484   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2485 Epoch 1226/2000
2486   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2487 Epoch 1227/2000
2488   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2489 Epoch 1228/2000
2490   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2491 Epoch 1229/2000
2492   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2493 Epoch 1230/2000
```

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```
2494 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2495 Epoch 1231/2000
2496 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2497 Epoch 1232/2000
2498 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2499 Epoch 1233/2000
2500 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2501 Epoch 1234/2000
2502 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2503 Epoch 1235/2000
2504 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2505 Epoch 1236/2000
2506 - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2507 Epoch 1237/2000
2508 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2509 Epoch 1238/2000
2510 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2511 Epoch 1239/2000
2512 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2513 Epoch 1240/2000
2514 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2515 Epoch 1241/2000
2516 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2517 Epoch 1242/2000
2518 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2519 Epoch 1243/2000
2520 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2521 Epoch 1244/2000
2522 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2523 Epoch 1245/2000
2524 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2525 Epoch 1246/2000
2526 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2527 Epoch 1247/2000
2528 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2529 Epoch 1248/2000
2530 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2531 Epoch 1249/2000
2532 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2533 Epoch 1250/2000
2534 - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2535 Epoch 1251/2000
2536 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2537 Epoch 1252/2000
2538 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2539 Epoch 1253/2000
2540 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2541 Epoch 1254/2000
2542 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2543 Epoch 1255/2000
2544 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2545 Epoch 1256/2000
2546 - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2547 Epoch 1257/2000
2548 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2549 Epoch 1258/2000
2550 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2551 Epoch 1259/2000
2552 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2553 Epoch 1260/2000
2554 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
```

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```
2555 Epoch 1261/2000
2556   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2557 Epoch 1262/2000
2558   - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2559 Epoch 1263/2000
2560   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2561 Epoch 1264/2000
2562   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2563 Epoch 1265/2000
2564   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2565 Epoch 1266/2000
2566   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2567 Epoch 1267/2000
2568   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2569 Epoch 1268/2000
2570   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2571 Epoch 1269/2000
2572   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2573 Epoch 1270/2000
2574   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2575 Epoch 1271/2000
2576   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2577 Epoch 1272/2000
2578   - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2579 Epoch 1273/2000
2580   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2581 Epoch 1274/2000
2582   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2583 Epoch 1275/2000
2584   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2585 Epoch 1276/2000
2586   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2587 Epoch 1277/2000
2588   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2589 Epoch 1278/2000
2590   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2591 Epoch 1279/2000
2592   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2593 Epoch 1280/2000
2594   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2595 Epoch 1281/2000
2596   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2597 Epoch 1282/2000
2598   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2599 Epoch 1283/2000
2600   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2601 Epoch 1284/2000
2602   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2603 Epoch 1285/2000
2604   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2605 Epoch 1286/2000
2606   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2607 Epoch 1287/2000
2608   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2609 Epoch 1288/2000
2610   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2611 Epoch 1289/2000
2612   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2613 Epoch 1290/2000
2614   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2615 Epoch 1291/2000
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2616 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2617 Epoch 1292/2000
2618 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2619 Epoch 1293/2000
2620 - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2621 Epoch 1294/2000
2622 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2623 Epoch 1295/2000
2624 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2625 Epoch 1296/2000
2626 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2627 Epoch 1297/2000
2628 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2629 Epoch 1298/2000
2630 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2631 Epoch 1299/2000
2632 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2633 Epoch 1300/2000
2634 - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2635 Epoch 1301/2000
2636 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2637 Epoch 1302/2000
2638 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2639 Epoch 1303/2000
2640 - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2641 Epoch 1304/2000
2642 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2643 Epoch 1305/2000
2644 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2645 Epoch 1306/2000
2646 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2647 Epoch 1307/2000
2648 - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2649 Epoch 1308/2000
2650 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2651 Epoch 1309/2000
2652 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2653 Epoch 1310/2000
2654 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2655 Epoch 1311/2000
2656 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2657 Epoch 1312/2000
2658 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2659 Epoch 1313/2000
2660 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2661 Epoch 1314/2000
2662 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2663 Epoch 1315/2000
2664 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2665 Epoch 1316/2000
2666 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2667 Epoch 1317/2000
2668 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2669 Epoch 1318/2000
2670 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2671 Epoch 1319/2000
2672 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2673 Epoch 1320/2000
2674 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2675 Epoch 1321/2000
2676 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
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```
2677 Epoch 1322/2000
2678   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2679 Epoch 1323/2000
2680   - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2681 Epoch 1324/2000
2682   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2683 Epoch 1325/2000
2684   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2685 Epoch 1326/2000
2686   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2687 Epoch 1327/2000
2688   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2689 Epoch 1328/2000
2690   - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2691 Epoch 1329/2000
2692   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2693 Epoch 1330/2000
2694   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2695 Epoch 1331/2000
2696   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2697 Epoch 1332/2000
2698   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2699 Epoch 1333/2000
2700   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2701 Epoch 1334/2000
2702   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2703 Epoch 1335/2000
2704   - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2705 Epoch 1336/2000
2706   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2707 Epoch 1337/2000
2708   - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2709 Epoch 1338/2000
2710   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2711 Epoch 1339/2000
2712   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2713 Epoch 1340/2000
2714   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2715 Epoch 1341/2000
2716   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2717 Epoch 1342/2000
2718   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2719 Epoch 1343/2000
2720   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2721 Epoch 1344/2000
2722   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2723 Epoch 1345/2000
2724   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2725 Epoch 1346/2000
2726   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2727 Epoch 1347/2000
2728   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2729 Epoch 1348/2000
2730   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2731 Epoch 1349/2000
2732   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2733 Epoch 1350/2000
2734   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2735 Epoch 1351/2000
2736   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2737 Epoch 1352/2000
```

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```
2738 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2739 Epoch 1353/2000
2740 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2741 Epoch 1354/2000
2742 - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2743 Epoch 1355/2000
2744 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2745 Epoch 1356/2000
2746 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2747 Epoch 1357/2000
2748 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2749 Epoch 1358/2000
2750 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2751 Epoch 1359/2000
2752 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2753 Epoch 1360/2000
2754 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2755 Epoch 1361/2000
2756 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2757 Epoch 1362/2000
2758 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2759 Epoch 1363/2000
2760 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2761 Epoch 1364/2000
2762 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2763 Epoch 1365/2000
2764 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2765 Epoch 1366/2000
2766 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2767 Epoch 1367/2000
2768 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2769 Epoch 1368/2000
2770 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2771 Epoch 1369/2000
2772 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2773 Epoch 1370/2000
2774 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2775 Epoch 1371/2000
2776 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2777 Epoch 1372/2000
2778 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2779 Epoch 1373/2000
2780 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2781 Epoch 1374/2000
2782 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2783 Epoch 1375/2000
2784 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2785 Epoch 1376/2000
2786 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2787 Epoch 1377/2000
2788 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2789 Epoch 1378/2000
2790 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2791 Epoch 1379/2000
2792 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2793 Epoch 1380/2000
2794 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2795 Epoch 1381/2000
2796 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2797 Epoch 1382/2000
2798 - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
```

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```
2799 Epoch 1383/2000
2800   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2801 Epoch 1384/2000
2802   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2803 Epoch 1385/2000
2804   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2805 Epoch 1386/2000
2806   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2807 Epoch 1387/2000
2808   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2809 Epoch 1388/2000
2810   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2811 Epoch 1389/2000
2812   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2813 Epoch 1390/2000
2814   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2815 Epoch 1391/2000
2816   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2817 Epoch 1392/2000
2818   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2819 Epoch 1393/2000
2820   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2821 Epoch 1394/2000
2822   - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2823 Epoch 1395/2000
2824   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2825 Epoch 1396/2000
2826   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2827 Epoch 1397/2000
2828   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2829 Epoch 1398/2000
2830   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2831 Epoch 1399/2000
2832   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2833 Epoch 1400/2000
2834   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2835 Epoch 1401/2000
2836   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2837 Epoch 1402/2000
2838   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2839 Epoch 1403/2000
2840   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2841 Epoch 1404/2000
2842   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2843 Epoch 1405/2000
2844   - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2845 Epoch 1406/2000
2846   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2847 Epoch 1407/2000
2848   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2849 Epoch 1408/2000
2850   - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2851 Epoch 1409/2000
2852   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2853 Epoch 1410/2000
2854   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2855 Epoch 1411/2000
2856   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2857 Epoch 1412/2000
2858   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2859 Epoch 1413/2000
```

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```
2860 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2861 Epoch 1414/2000
2862 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2863 Epoch 1415/2000
2864 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2865 Epoch 1416/2000
2866 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2867 Epoch 1417/2000
2868 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2869 Epoch 1418/2000
2870 - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2871 Epoch 1419/2000
2872 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2873 Epoch 1420/2000
2874 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2875 Epoch 1421/2000
2876 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2877 Epoch 1422/2000
2878 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2879 Epoch 1423/2000
2880 - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2881 Epoch 1424/2000
2882 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2883 Epoch 1425/2000
2884 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2885 Epoch 1426/2000
2886 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2887 Epoch 1427/2000
2888 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2889 Epoch 1428/2000
2890 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2891 Epoch 1429/2000
2892 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2893 Epoch 1430/2000
2894 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2895 Epoch 1431/2000
2896 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2897 Epoch 1432/2000
2898 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2899 Epoch 1433/2000
2900 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2901 Epoch 1434/2000
2902 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2903 Epoch 1435/2000
2904 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2905 Epoch 1436/2000
2906 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2907 Epoch 1437/2000
2908 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2909 Epoch 1438/2000
2910 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2911 Epoch 1439/2000
2912 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2913 Epoch 1440/2000
2914 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2915 Epoch 1441/2000
2916 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2917 Epoch 1442/2000
2918 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2919 Epoch 1443/2000
2920 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
```


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```
2921 Epoch 1444/2000
2922   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2923 Epoch 1445/2000
2924   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2925 Epoch 1446/2000
2926   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2927 Epoch 1447/2000
2928   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2929 Epoch 1448/2000
2930   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2931 Epoch 1449/2000
2932   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2933 Epoch 1450/2000
2934   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2935 Epoch 1451/2000
2936   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2937 Epoch 1452/2000
2938   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2939 Epoch 1453/2000
2940   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2941 Epoch 1454/2000
2942   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2943 Epoch 1455/2000
2944   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2945 Epoch 1456/2000
2946   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2947 Epoch 1457/2000
2948   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2949 Epoch 1458/2000
2950   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2951 Epoch 1459/2000
2952   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2953 Epoch 1460/2000
2954   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2955 Epoch 1461/2000
2956   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2957 Epoch 1462/2000
2958   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2959 Epoch 1463/2000
2960   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2961 Epoch 1464/2000
2962   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2963 Epoch 1465/2000
2964   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2965 Epoch 1466/2000
2966   - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2967 Epoch 1467/2000
2968   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2969 Epoch 1468/2000
2970   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2971 Epoch 1469/2000
2972   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2973 Epoch 1470/2000
2974   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2975 Epoch 1471/2000
2976   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2977 Epoch 1472/2000
2978   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2979 Epoch 1473/2000
2980   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2981 Epoch 1474/2000
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2982 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2983 Epoch 1475/2000
2984 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2985 Epoch 1476/2000
2986 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2987 Epoch 1477/2000
2988 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2989 Epoch 1478/2000
2990 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2991 Epoch 1479/2000
2992 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2993 Epoch 1480/2000
2994 - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2995 Epoch 1481/2000
2996 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2997 Epoch 1482/2000
2998 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
2999 Epoch 1483/2000
3000 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3001 Epoch 1484/2000
3002 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3003 Epoch 1485/2000
3004 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3005 Epoch 1486/2000
3006 - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3007 Epoch 1487/2000
3008 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3009 Epoch 1488/2000
3010 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3011 Epoch 1489/2000
3012 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3013 Epoch 1490/2000
3014 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3015 Epoch 1491/2000
3016 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3017 Epoch 1492/2000
3018 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3019 Epoch 1493/2000
3020 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3021 Epoch 1494/2000
3022 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3023 Epoch 1495/2000
3024 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3025 Epoch 1496/2000
3026 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3027 Epoch 1497/2000
3028 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3029 Epoch 1498/2000
3030 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3031 Epoch 1499/2000
3032 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3033 Epoch 1500/2000
3034 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3035 Epoch 1501/2000
3036 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3037 Epoch 1502/2000
3038 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3039 Epoch 1503/2000
3040 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3041 Epoch 1504/2000
3042 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
```

File - attention_dense

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3043 Epoch 1505/2000
3044   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3045 Epoch 1506/2000
3046   - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3047 Epoch 1507/2000
3048   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3049 Epoch 1508/2000
3050   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3051 Epoch 1509/2000
3052   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3053 Epoch 1510/2000
3054   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3055 Epoch 1511/2000
3056   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3057 Epoch 1512/2000
3058   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3059 Epoch 1513/2000
3060   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3061 Epoch 1514/2000
3062   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3063 Epoch 1515/2000
3064   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3065 Epoch 1516/2000
3066   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3067 Epoch 1517/2000
3068   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3069 Epoch 1518/2000
3070   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3071 Epoch 1519/2000
3072   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3073 Epoch 1520/2000
3074   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3075 Epoch 1521/2000
3076   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3077 Epoch 1522/2000
3078   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3079 Epoch 1523/2000
3080   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3081 Epoch 1524/2000
3082   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3083 Epoch 1525/2000
3084   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3085 Epoch 1526/2000
3086   - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3087 Epoch 1527/2000
3088   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3089 Epoch 1528/2000
3090   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3091 Epoch 1529/2000
3092   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3093 Epoch 1530/2000
3094   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3095 Epoch 1531/2000
3096   - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3097 Epoch 1532/2000
3098   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3099 Epoch 1533/2000
3100   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3101 Epoch 1534/2000
3102   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3103 Epoch 1535/2000
```

[illegible]

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```
3165 Epoch 1566/2000
3166   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3167 Epoch 1567/2000
3168   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3169 Epoch 1568/2000
3170   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3171 Epoch 1569/2000
3172   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3173 Epoch 1570/2000
3174   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3175 Epoch 1571/2000
3176   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3177 Epoch 1572/2000
3178   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3179 Epoch 1573/2000
3180   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3181 Epoch 1574/2000
3182   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3183 Epoch 1575/2000
3184   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3185 Epoch 1576/2000
3186   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3187 Epoch 1577/2000
3188   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3189 Epoch 1578/2000
3190   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3191 Epoch 1579/2000
3192   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3193 Epoch 1580/2000
3194   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3195 Epoch 1581/2000
3196   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3197 Epoch 1582/2000
3198   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3199 Epoch 1583/2000
3200   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3201 Epoch 1584/2000
3202   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3203 Epoch 1585/2000
3204   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3205 Epoch 1586/2000
3206   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3207 Epoch 1587/2000
3208   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3209 Epoch 1588/2000
3210   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3211 Epoch 1589/2000
3212   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3213 Epoch 1590/2000
3214   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3215 Epoch 1591/2000
3216   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3217 Epoch 1592/2000
3218   - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3219 Epoch 1593/2000
3220   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3221 Epoch 1594/2000
3222   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3223 Epoch 1595/2000
3224   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3225 Epoch 1596/2000
```

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3226 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3227 Epoch 1597/2000
3228 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3229 Epoch 1598/2000
3230 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3231 Epoch 1599/2000
3232 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3233 Epoch 1600/2000
3234 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3235 Epoch 1601/2000
3236 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3237 Epoch 1602/2000
3238 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3239 Epoch 1603/2000
3240 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3241 Epoch 1604/2000
3242 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3243 Epoch 1605/2000
3244 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3245 Epoch 1606/2000
3246 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3247 Epoch 1607/2000
3248 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3249 Epoch 1608/2000
3250 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3251 Epoch 1609/2000
3252 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3253 Epoch 1610/2000
3254 - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3255 Epoch 1611/2000
3256 - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3257 Epoch 1612/2000
3258 - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3259 Epoch 1613/2000
3260 - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3261 Epoch 1614/2000
3262 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3263 Epoch 1615/2000
3264 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3265 Epoch 1616/2000
3266 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3267 Epoch 1617/2000
3268 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3269 Epoch 1618/2000
3270 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3271 Epoch 1619/2000
3272 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3273 Epoch 1620/2000
3274 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3275 Epoch 1621/2000
3276 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3277 Epoch 1622/2000
3278 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3279 Epoch 1623/2000
3280 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3281 Epoch 1624/2000
3282 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3283 Epoch 1625/2000
3284 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3285 Epoch 1626/2000
3286 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
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3287 Epoch 1627/2000
3288   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3289 Epoch 1628/2000
3290   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3291 Epoch 1629/2000
3292   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3293 Epoch 1630/2000
3294   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3295 Epoch 1631/2000
3296   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3297 Epoch 1632/2000
3298   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3299 Epoch 1633/2000
3300   - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3301 Epoch 1634/2000
3302   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3303 Epoch 1635/2000
3304   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3305 Epoch 1636/2000
3306   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3307 Epoch 1637/2000
3308   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3309 Epoch 1638/2000
3310   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3311 Epoch 1639/2000
3312   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3313 Epoch 1640/2000
3314   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3315 Epoch 1641/2000
3316   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3317 Epoch 1642/2000
3318   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3319 Epoch 1643/2000
3320   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3321 Epoch 1644/2000
3322   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3323 Epoch 1645/2000
3324   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3325 Epoch 1646/2000
3326   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3327 Epoch 1647/2000
3328   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3329 Epoch 1648/2000
3330   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3331 Epoch 1649/2000
3332   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3333 Epoch 1650/2000
3334   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3335 Epoch 1651/2000
3336   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3337 Epoch 1652/2000
3338   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3339 Epoch 1653/2000
3340   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3341 Epoch 1654/2000
3342   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3343 Epoch 1655/2000
3344   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3345 Epoch 1656/2000
3346   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3347 Epoch 1657/2000
```

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3348 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3349 Epoch 1658/2000
3350 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3351 Epoch 1659/2000
3352 - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3353 Epoch 1660/2000
3354 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3355 Epoch 1661/2000
3356 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3357 Epoch 1662/2000
3358 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3359 Epoch 1663/2000
3360 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3361 Epoch 1664/2000
3362 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3363 Epoch 1665/2000
3364 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3365 Epoch 1666/2000
3366 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3367 Epoch 1667/2000
3368 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3369 Epoch 1668/2000
3370 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3371 Epoch 1669/2000
3372 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3373 Epoch 1670/2000
3374 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3375 Epoch 1671/2000
3376 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3377 Epoch 1672/2000
3378 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3379 Epoch 1673/2000
3380 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3381 Epoch 1674/2000
3382 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3383 Epoch 1675/2000
3384 - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3385 Epoch 1676/2000
3386 - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3387 Epoch 1677/2000
3388 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3389 Epoch 1678/2000
3390 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3391 Epoch 1679/2000
3392 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3393 Epoch 1680/2000
3394 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3395 Epoch 1681/2000
3396 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3397 Epoch 1682/2000
3398 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3399 Epoch 1683/2000
3400 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3401 Epoch 1684/2000
3402 - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3403 Epoch 1685/2000
3404 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3405 Epoch 1686/2000
3406 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3407 Epoch 1687/2000
3408 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
```


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```
3409 Epoch 1688/2000
3410   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3411 Epoch 1689/2000
3412   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3413 Epoch 1690/2000
3414   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3415 Epoch 1691/2000
3416   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3417 Epoch 1692/2000
3418   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3419 Epoch 1693/2000
3420   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3421 Epoch 1694/2000
3422   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3423 Epoch 1695/2000
3424   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3425 Epoch 1696/2000
3426   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3427 Epoch 1697/2000
3428   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3429 Epoch 1698/2000
3430   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3431 Epoch 1699/2000
3432   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3433 Epoch 1700/2000
3434   - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3435 Epoch 1701/2000
3436   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3437 Epoch 1702/2000
3438   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3439 Epoch 1703/2000
3440   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3441 Epoch 1704/2000
3442   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3443 Epoch 1705/2000
3444   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3445 Epoch 1706/2000
3446   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3447 Epoch 1707/2000
3448   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3449 Epoch 1708/2000
3450   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3451 Epoch 1709/2000
3452   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3453 Epoch 1710/2000
3454   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3455 Epoch 1711/2000
3456   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3457 Epoch 1712/2000
3458   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3459 Epoch 1713/2000
3460   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3461 Epoch 1714/2000
3462   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3463 Epoch 1715/2000
3464   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3465 Epoch 1716/2000
3466   - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3467 Epoch 1717/2000
3468   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3469 Epoch 1718/2000
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3470 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3471 Epoch 1719/2000
3472 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3473 Epoch 1720/2000
3474 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3475 Epoch 1721/2000
3476 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3477 Epoch 1722/2000
3478 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3479 Epoch 1723/2000
3480 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3481 Epoch 1724/2000
3482 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3483 Epoch 1725/2000
3484 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3485 Epoch 1726/2000
3486 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3487 Epoch 1727/2000
3488 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3489 Epoch 1728/2000
3490 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3491 Epoch 1729/2000
3492 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3493 Epoch 1730/2000
3494 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3495 Epoch 1731/2000
3496 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3497 Epoch 1732/2000
3498 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3499 Epoch 1733/2000
3500 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3501 Epoch 1734/2000
3502 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3503 Epoch 1735/2000
3504 - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3505 Epoch 1736/2000
3506 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3507 Epoch 1737/2000
3508 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3509 Epoch 1738/2000
3510 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3511 Epoch 1739/2000
3512 - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3513 Epoch 1740/2000
3514 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3515 Epoch 1741/2000
3516 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3517 Epoch 1742/2000
3518 - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3519 Epoch 1743/2000
3520 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3521 Epoch 1744/2000
3522 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3523 Epoch 1745/2000
3524 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3525 Epoch 1746/2000
3526 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3527 Epoch 1747/2000
3528 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3529 Epoch 1748/2000
3530 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
```

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```
3531 Epoch 1749/2000
3532   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3533 Epoch 1750/2000
3534   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3535 Epoch 1751/2000
3536   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3537 Epoch 1752/2000
3538   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3539 Epoch 1753/2000
3540   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3541 Epoch 1754/2000
3542   - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3543 Epoch 1755/2000
3544   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3545 Epoch 1756/2000
3546   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3547 Epoch 1757/2000
3548   - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3549 Epoch 1758/2000
3550   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3551 Epoch 1759/2000
3552   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3553 Epoch 1760/2000
3554   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3555 Epoch 1761/2000
3556   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3557 Epoch 1762/2000
3558   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3559 Epoch 1763/2000
3560   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3561 Epoch 1764/2000
3562   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3563 Epoch 1765/2000
3564   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3565 Epoch 1766/2000
3566   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3567 Epoch 1767/2000
3568   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3569 Epoch 1768/2000
3570   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3571 Epoch 1769/2000
3572   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3573 Epoch 1770/2000
3574   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3575 Epoch 1771/2000
3576   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3577 Epoch 1772/2000
3578   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3579 Epoch 1773/2000
3580   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3581 Epoch 1774/2000
3582   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3583 Epoch 1775/2000
3584   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3585 Epoch 1776/2000
3586   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3587 Epoch 1777/2000
3588   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3589 Epoch 1778/2000
3590   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3591 Epoch 1779/2000
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3592 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3593 Epoch 1780/2000
3594 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3595 Epoch 1781/2000
3596 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3597 Epoch 1782/2000
3598 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3599 Epoch 1783/2000
3600 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3601 Epoch 1784/2000
3602 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3603 Epoch 1785/2000
3604 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3605 Epoch 1786/2000
3606 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3607 Epoch 1787/2000
3608 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3609 Epoch 1788/2000
3610 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3611 Epoch 1789/2000
3612 - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3613 Epoch 1790/2000
3614 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3615 Epoch 1791/2000
3616 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3617 Epoch 1792/2000
3618 - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3619 Epoch 1793/2000
3620 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3621 Epoch 1794/2000
3622 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3623 Epoch 1795/2000
3624 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3625 Epoch 1796/2000
3626 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3627 Epoch 1797/2000
3628 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3629 Epoch 1798/2000
3630 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3631 Epoch 1799/2000
3632 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3633 Epoch 1800/2000
3634 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3635 Epoch 1801/2000
3636 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3637 Epoch 1802/2000
3638 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3639 Epoch 1803/2000
3640 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3641 Epoch 1804/2000
3642 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3643 Epoch 1805/2000
3644 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3645 Epoch 1806/2000
3646 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3647 Epoch 1807/2000
3648 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3649 Epoch 1808/2000
3650 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3651 Epoch 1809/2000
3652 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
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3653 Epoch 1810/2000
3654   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3655 Epoch 1811/2000
3656   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3657 Epoch 1812/2000
3658   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3659 Epoch 1813/2000
3660   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3661 Epoch 1814/2000
3662   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3663 Epoch 1815/2000
3664   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3665 Epoch 1816/2000
3666   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3667 Epoch 1817/2000
3668   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3669 Epoch 1818/2000
3670   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3671 Epoch 1819/2000
3672   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3673 Epoch 1820/2000
3674   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3675 Epoch 1821/2000
3676   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3677 Epoch 1822/2000
3678   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3679 Epoch 1823/2000
3680   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3681 Epoch 1824/2000
3682   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3683 Epoch 1825/2000
3684   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3685 Epoch 1826/2000
3686   - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3687 Epoch 1827/2000
3688   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3689 Epoch 1828/2000
3690   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3691 Epoch 1829/2000
3692   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3693 Epoch 1830/2000
3694   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3695 Epoch 1831/2000
3696   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3697 Epoch 1832/2000
3698   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3699 Epoch 1833/2000
3700   - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3701 Epoch 1834/2000
3702   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3703 Epoch 1835/2000
3704   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3705 Epoch 1836/2000
3706   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3707 Epoch 1837/2000
3708   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3709 Epoch 1838/2000
3710   - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3711 Epoch 1839/2000
3712   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3713 Epoch 1840/2000
```

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```
3775 Epoch 1871/2000
3776   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3777 Epoch 1872/2000
3778   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3779 Epoch 1873/2000
3780   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3781 Epoch 1874/2000
3782   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3783 Epoch 1875/2000
3784   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3785 Epoch 1876/2000
3786   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3787 Epoch 1877/2000
3788   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3789 Epoch 1878/2000
3790   - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3791 Epoch 1879/2000
3792   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3793 Epoch 1880/2000
3794   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3795 Epoch 1881/2000
3796   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3797 Epoch 1882/2000
3798   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3799 Epoch 1883/2000
3800   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3801 Epoch 1884/2000
3802   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3803 Epoch 1885/2000
3804   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3805 Epoch 1886/2000
3806   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3807 Epoch 1887/2000
3808   - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3809 Epoch 1888/2000
3810   - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3811 Epoch 1889/2000
3812   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3813 Epoch 1890/2000
3814   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3815 Epoch 1891/2000
3816   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3817 Epoch 1892/2000
3818   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3819 Epoch 1893/2000
3820   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3821 Epoch 1894/2000
3822   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3823 Epoch 1895/2000
3824   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3825 Epoch 1896/2000
3826   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3827 Epoch 1897/2000
3828   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3829 Epoch 1898/2000
3830   - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3831 Epoch 1899/2000
3832   - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3833 Epoch 1900/2000
3834   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3835 Epoch 1901/2000
```

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```
3897 Epoch 1932/2000
3898   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3899 Epoch 1933/2000
3900   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3901 Epoch 1934/2000
3902   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3903 Epoch 1935/2000
3904   - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3905 Epoch 1936/2000
3906   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3907 Epoch 1937/2000
3908   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3909 Epoch 1938/2000
3910   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3911 Epoch 1939/2000
3912   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3913 Epoch 1940/2000
3914   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3915 Epoch 1941/2000
3916   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3917 Epoch 1942/2000
3918   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3919 Epoch 1943/2000
3920   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3921 Epoch 1944/2000
3922   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3923 Epoch 1945/2000
3924   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3925 Epoch 1946/2000
3926   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3927 Epoch 1947/2000
3928   - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3929 Epoch 1948/2000
3930   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3931 Epoch 1949/2000
3932   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3933 Epoch 1950/2000
3934   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3935 Epoch 1951/2000
3936   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3937 Epoch 1952/2000
3938   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3939 Epoch 1953/2000
3940   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3941 Epoch 1954/2000
3942   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3943 Epoch 1955/2000
3944   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3945 Epoch 1956/2000
3946   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3947 Epoch 1957/2000
3948   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3949 Epoch 1958/2000
3950   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3951 Epoch 1959/2000
3952   - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3953 Epoch 1960/2000
3954   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3955 Epoch 1961/2000
3956   - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3957 Epoch 1962/2000
```

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```
3958 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3959 Epoch 1963/2000
3960 - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3961 Epoch 1964/2000
3962 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3963 Epoch 1965/2000
3964 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3965 Epoch 1966/2000
3966 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3967 Epoch 1967/2000
3968 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3969 Epoch 1968/2000
3970 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3971 Epoch 1969/2000
3972 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3973 Epoch 1970/2000
3974 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3975 Epoch 1971/2000
3976 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3977 Epoch 1972/2000
3978 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3979 Epoch 1973/2000
3980 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3981 Epoch 1974/2000
3982 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3983 Epoch 1975/2000
3984 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3985 Epoch 1976/2000
3986 - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3987 Epoch 1977/2000
3988 - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3989 Epoch 1978/2000
3990 - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3991 Epoch 1979/2000
3992 - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3993 Epoch 1980/2000
3994 - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3995 Epoch 1981/2000
3996 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3997 Epoch 1982/2000
3998 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
3999 Epoch 1983/2000
4000 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
4001 Epoch 1984/2000
4002 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
4003 Epoch 1985/2000
4004 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
4005 Epoch 1986/2000
4006 - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
4007 Epoch 1987/2000
4008 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
4009 Epoch 1988/2000
4010 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
4011 Epoch 1989/2000
4012 - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
4013 Epoch 1990/2000
4014 - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
4015 Epoch 1991/2000
4016 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
4017 Epoch 1992/2000
4018 - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
```

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```
4019 Epoch 1993/2000
4020 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
4021 Epoch 1994/2000
4022 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
4023 Epoch 1995/2000
4024 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
4025 Epoch 1996/2000
4026 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
4027 Epoch 1997/2000
4028 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
4029 Epoch 1998/2000
4030 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
4031 Epoch 1999/2000
4032 - 0s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
4033 Epoch 2000/2000
4034 - 1s - loss: 1.0958e-07 - acc: 1.0000 - val_loss: 1.1145e-07 - val_acc: 1.0000
4035 ----- activations -----
4036 (1, 32)
4037 attention = [0.027792  0.17804202 0.04044582 0.02989022 0.05329752 0.02148704
4038 0.01544637 0.02581711 0.03117084 0.02920937 0.02322003 0.02334983
4039 0.02311957 0.02502502 0.03413659 0.02342721 0.02488957 0.01617377
4040 0.02504707 0.04328081 0.02093113 0.01408856 0.03357827 0.01307667
4041 0.02198134 0.03207966 0.02559818 0.02266801 0.03265346 0.02172231
4042 0.0282919  0.01906271]
4043
4044 Process finished with exit code 0
4045
```