

```

1 ssh://root@103.254.67.181:10006/usr/bin/
  python -u /home/sunfengzhen/pycharm/
  keras_titanic/keras_titanic.py
2 Using TensorFlow backend.
3 #####load dataset
  #####
4 saved to processed_titanic.csv
5 #####model train
  #####
6 model.metrics_names = ['loss', 'acc']
7
8 Layer (type)                Output
  Shape                        Param #
9 =====
  =====
10 dense_1 (Dense)              (None, 40
   )                          400
11
12 dense_2 (Dense)              (None, 30
   )                          1230
13

```

```
14 dense_3 (Dense) (None, 1
    ) 31
15 =====
    =====
16 Total params: 1,661
17 Trainable params: 1,661
18 Non-trainable params: 0
19
20 Train on 837 samples, validate on 210
    samples
21 Epoch 1/10000
22 2019-06-11 01:01:43.901655: I tensorflow
    /core/platform/cpu_feature_guard.cc:141
    ] Your CPU supports instructions that
    this TensorFlow binary was not compiled
    to use: AVX2 FMA
23 2019-06-11 01:01:44.178141: I tensorflow
    /core/common_runtime/gpu/gpu_device.cc:
    1432] Found device 0 with properties:
24 name: GeForce GTX 1080 Ti major: 6 minor
    : 1 memoryClockRate(GHz): 1.582
25 pciBusID: 0000:02:00.0
26 totalMemory: 10.92GiB freeMemory: 10.
```

```
26 76Gi B
27 2019-06-11 01:01:44.178207: I tensorflow
/core/common_runtime/gpu/gpu_device.cc:
1511] Adding visible gpu devices: 0
28 2019-06-11 01:01:44.606523: I tensorflow
/core/common_runtime/gpu/gpu_device.cc:
982] Device interconnect StreamExecutor
with strength 1 edge matrix:
29 2019-06-11 01:01:44.606602: I tensorflow
/core/common_runtime/gpu/gpu_device.cc:
988]      0
30 2019-06-11 01:01:44.606614: I tensorflow
/core/common_runtime/gpu/gpu_device.cc:
1001] 0:    N
31 2019-06-11 01:01:44.607002: 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)
32 - 2s - loss: 0.6527 - acc: 0.6774 -
val_loss: 0.6225 - val_acc: 0.7143
```

```
33 Epoch 2/10000
34   - 0s - loss: 0.5826 - acc: 0.7515 -
    val_loss: 0.5747 - val_acc: 0.7333
35 Epoch 3/10000
36   - 0s - loss: 0.5291 - acc: 0.7885 -
    val_loss: 0.5459 - val_acc: 0.7524
37 Epoch 4/10000
38   - 0s - loss: 0.4942 - acc: 0.7969 -
    val_loss: 0.5433 - val_acc: 0.7333
39 Epoch 5/10000
40   - 0s - loss: 0.4805 - acc: 0.7658 -
    val_loss: 0.5319 - val_acc: 0.7524
41 Epoch 6/10000
42   - 0s - loss: 0.4709 - acc: 0.7945 -
    val_loss: 0.5311 - val_acc: 0.7381
43 Epoch 7/10000
44   - 0s - loss: 0.4661 - acc: 0.7778 -
    val_loss: 0.5242 - val_acc: 0.7571
45 Epoch 8/10000
46   - 0s - loss: 0.4614 - acc: 0.7802 -
    val_loss: 0.5228 - val_acc: 0.7619
47 Epoch 9/10000
48   - 0s - loss: 0.4591 - acc: 0.7861 -
    val_loss: 0.5192 - val_acc: 0.7619
```

```
49 Epoch 10/10000
50   - 0s - loss: 0.4549 - acc: 0.7909 -
    val_loss: 0.5151 - val_acc: 0.7476
51 Epoch 11/10000
52   - 0s - loss: 0.4534 - acc: 0.7909 -
    val_loss: 0.5206 - val_acc: 0.7714
53 Epoch 12/10000
54   - 0s - loss: 0.4530 - acc: 0.7885 -
    val_loss: 0.5101 - val_acc: 0.7524
55 Epoch 13/10000
56   - 0s - loss: 0.4491 - acc: 0.7969 -
    val_loss: 0.5088 - val_acc: 0.7667
57 Epoch 14/10000
58   - 0s - loss: 0.4477 - acc: 0.7969 -
    val_loss: 0.5053 - val_acc: 0.7667
59 Epoch 15/10000
60   - 0s - loss: 0.4455 - acc: 0.8005 -
    val_loss: 0.5089 - val_acc: 0.7762
61 Epoch 16/10000
62   - 0s - loss: 0.4456 - acc: 0.8005 -
    val_loss: 0.5026 - val_acc: 0.7810
63 Epoch 17/10000
64   - 0s - loss: 0.4424 - acc: 0.7981 -
    val_loss: 0.4983 - val_acc: 0.7714
```

```
65 Epoch 18/10000
66   - 0s - loss: 0.4418 - acc: 0.8065 -
    val_loss: 0.4955 - val_acc: 0.7762
67 Epoch 19/10000
68   - 0s - loss: 0.4410 - acc: 0.8005 -
    val_loss: 0.4999 - val_acc: 0.7762
69 Epoch 20/10000
70   - 0s - loss: 0.4401 - acc: 0.7981 -
    val_loss: 0.5009 - val_acc: 0.7762
71 Epoch 21/10000
72   - 0s - loss: 0.4378 - acc: 0.8053 -
    val_loss: 0.4966 - val_acc: 0.7810
73 Epoch 22/10000
74   - 0s - loss: 0.4375 - acc: 0.8017 -
    val_loss: 0.5003 - val_acc: 0.7762
75 Epoch 23/10000
76   - 0s - loss: 0.4370 - acc: 0.8076 -
    val_loss: 0.4936 - val_acc: 0.7714
77 Epoch 24/10000
78   - 0s - loss: 0.4375 - acc: 0.8041 -
    val_loss: 0.4956 - val_acc: 0.7905
79 Epoch 25/10000
80   - 0s - loss: 0.4357 - acc: 0.8136 -
    val_loss: 0.4918 - val_acc: 0.7714
```

```
81 Epoch 26/10000
82   - 0s - loss: 0.4335 - acc: 0.8076 -
    val_loss: 0.4933 - val_acc: 0.7762
83 Epoch 27/10000
84   - 0s - loss: 0.4329 - acc: 0.8088 -
    val_loss: 0.4905 - val_acc: 0.7857
85 Epoch 28/10000
86   - 0s - loss: 0.4332 - acc: 0.8136 -
    val_loss: 0.4904 - val_acc: 0.7667
87 Epoch 29/10000
88   - 0s - loss: 0.4321 - acc: 0.7993 -
    val_loss: 0.4910 - val_acc: 0.7667
89 Epoch 30/10000
90   - 0s - loss: 0.4320 - acc: 0.8065 -
    val_loss: 0.4933 - val_acc: 0.7714
91 Epoch 31/10000
92   - 0s - loss: 0.4321 - acc: 0.8041 -
    val_loss: 0.4893 - val_acc: 0.7762
93 Epoch 32/10000
94   - 0s - loss: 0.4326 - acc: 0.8088 -
    val_loss: 0.4940 - val_acc: 0.7810
95 Epoch 33/10000
96   - 0s - loss: 0.4312 - acc: 0.8160 -
    val_loss: 0.4905 - val_acc: 0.7667
```

```
97 Epoch 34/10000
98   - 0s - loss: 0.4338 - acc: 0.8076 -
    val_loss: 0.4933 - val_acc: 0.7857
99 Epoch 35/10000
100   - 0s - loss: 0.4299 - acc: 0.8053 -
    val_loss: 0.4902 - val_acc: 0.7762
101 Epoch 36/10000
102   - 0s - loss: 0.4287 - acc: 0.8053 -
    val_loss: 0.4897 - val_acc: 0.7762
103 Epoch 37/10000
104   - 0s - loss: 0.4285 - acc: 0.8100 -
    val_loss: 0.5146 - val_acc: 0.7810
105 Epoch 38/10000
106   - 0s - loss: 0.4314 - acc: 0.8029 -
    val_loss: 0.4896 - val_acc: 0.7667
107 Epoch 39/10000
108   - 0s - loss: 0.4303 - acc: 0.8076 -
    val_loss: 0.4860 - val_acc: 0.7762
109 Epoch 40/10000
110   - 0s - loss: 0.4285 - acc: 0.8124 -
    val_loss: 0.5087 - val_acc: 0.8000
111 Epoch 41/10000
112   - 0s - loss: 0.4272 - acc: 0.8088 -
    val_loss: 0.4871 - val_acc: 0.7762
```



```
113 Epoch 42/10000
114   - 0s - loss: 0.4301 - acc: 0.8076 -
    val_loss: 0.4883 - val_acc: 0.7762
115 Epoch 43/10000
116   - 0s - loss: 0.4267 - acc: 0.8112 -
    val_loss: 0.4922 - val_acc: 0.7762
117 Epoch 44/10000
118   - 0s - loss: 0.4291 - acc: 0.8160 -
    val_loss: 0.4869 - val_acc: 0.7762
119 Epoch 45/10000
120   - 0s - loss: 0.4272 - acc: 0.8065 -
    val_loss: 0.5021 - val_acc: 0.7905
121 Epoch 46/10000
122   - 0s - loss: 0.4301 - acc: 0.8065 -
    val_loss: 0.4882 - val_acc: 0.7762
123 Epoch 47/10000
124   - 0s - loss: 0.4254 - acc: 0.8100 -
    val_loss: 0.5086 - val_acc: 0.8000
125 Epoch 48/10000
126   - 0s - loss: 0.4282 - acc: 0.8112 -
    val_loss: 0.4951 - val_acc: 0.7762
127 Epoch 49/10000
128   - 0s - loss: 0.4274 - acc: 0.8124 -
    val_loss: 0.4861 - val_acc: 0.7667
```

```
129 Epoch 50/10000
130   - 0s - loss: 0.4237 - acc: 0.8112 -
    val_loss: 0.4907 - val_acc: 0.7667
131 Epoch 51/10000
132   - 0s - loss: 0.4268 - acc: 0.8172 -
    val_loss: 0.4883 - val_acc: 0.7714
133 Epoch 52/10000
134   - 0s - loss: 0.4268 - acc: 0.8076 -
    val_loss: 0.4869 - val_acc: 0.7714
135 Epoch 53/10000
136   - 0s - loss: 0.4266 - acc: 0.8124 -
    val_loss: 0.4954 - val_acc: 0.7857
137 Epoch 54/10000
138   - 0s - loss: 0.4273 - acc: 0.8112 -
    val_loss: 0.5067 - val_acc: 0.7952
139 Epoch 55/10000
140   - 0s - loss: 0.4278 - acc: 0.8160 -
    val_loss: 0.4911 - val_acc: 0.7667
141 Epoch 56/10000
142   - 0s - loss: 0.4261 - acc: 0.8112 -
    val_loss: 0.4901 - val_acc: 0.7667
143 Epoch 57/10000
144   - 0s - loss: 0.4273 - acc: 0.8160 -
    val_loss: 0.4925 - val_acc: 0.7762
```

```
145 Epoch 58/10000
146   - 0s - loss: 0.4259 - acc: 0.8160 -
    val_loss: 0.4922 - val_acc: 0.7667
147 Epoch 59/10000
148   - 0s - loss: 0.4257 - acc: 0.8136 -
    val_loss: 0.4866 - val_acc: 0.7762
149 Epoch 60/10000
150   - 0s - loss: 0.4246 - acc: 0.8160 -
    val_loss: 0.4910 - val_acc: 0.7667
151 Epoch 61/10000
152   - 0s - loss: 0.4221 - acc: 0.8112 -
    val_loss: 0.4853 - val_acc: 0.7762
153 Epoch 62/10000
154   - 0s - loss: 0.4240 - acc: 0.8136 -
    val_loss: 0.4985 - val_acc: 0.7762
155 Epoch 63/10000
156   - 0s - loss: 0.4245 - acc: 0.8100 -
    val_loss: 0.5002 - val_acc: 0.7905
157 Epoch 64/10000
158   - 0s - loss: 0.4242 - acc: 0.8124 -
    val_loss: 0.4924 - val_acc: 0.7810
159 Epoch 65/10000
160   - 0s - loss: 0.4242 - acc: 0.8172 -
    val_loss: 0.4849 - val_acc: 0.7762
```

```
161 Epoch 66/10000
162   - 0s - loss: 0.4250 - acc: 0.8112 -
    val_loss: 0.4880 - val_acc: 0.7810
163 Epoch 67/10000
164   - 0s - loss: 0.4230 - acc: 0.8196 -
    val_loss: 0.4923 - val_acc: 0.7762
165 Epoch 68/10000
166   - 0s - loss: 0.4227 - acc: 0.8184 -
    val_loss: 0.4844 - val_acc: 0.7762
167 Epoch 69/10000
168   - 0s - loss: 0.4229 - acc: 0.8184 -
    val_loss: 0.4843 - val_acc: 0.7714
169 Epoch 70/10000
170   - 0s - loss: 0.4246 - acc: 0.8136 -
    val_loss: 0.4850 - val_acc: 0.7667
171 Epoch 71/10000
172   - 0s - loss: 0.4231 - acc: 0.8136 -
    val_loss: 0.4882 - val_acc: 0.7762
173 Epoch 72/10000
174   - 0s - loss: 0.4224 - acc: 0.8244 -
    val_loss: 0.5025 - val_acc: 0.7905
175 Epoch 73/10000
176   - 0s - loss: 0.4205 - acc: 0.8208 -
    val_loss: 0.4861 - val_acc: 0.7762
```

```
177 Epoch 74/10000
178   - 0s - loss: 0.4210 - acc: 0.8256 -
    val_loss: 0.4878 - val_acc: 0.7762
179 Epoch 75/10000
180   - 0s - loss: 0.4223 - acc: 0.8148 -
    val_loss: 0.4866 - val_acc: 0.7714
181 Epoch 76/10000
182   - 0s - loss: 0.4213 - acc: 0.8148 -
    val_loss: 0.5012 - val_acc: 0.7810
183 Epoch 77/10000
184   - 0s - loss: 0.4223 - acc: 0.8172 -
    val_loss: 0.4872 - val_acc: 0.7810
185 Epoch 78/10000
186   - 0s - loss: 0.4227 - acc: 0.8148 -
    val_loss: 0.4869 - val_acc: 0.7714
187 Epoch 79/10000
188   - 0s - loss: 0.4204 - acc: 0.8184 -
    val_loss: 0.4885 - val_acc: 0.7571
189 Epoch 80/10000
190   - 0s - loss: 0.4223 - acc: 0.8208 -
    val_loss: 0.4846 - val_acc: 0.7762
191 Epoch 81/10000
192   - 0s - loss: 0.4209 - acc: 0.8184 -
    val_loss: 0.4866 - val_acc: 0.7714
```

```
193 Epoch 82/10000
194   - 0s - loss: 0.4207 - acc: 0.8208 -
    val_loss: 0.5076 - val_acc: 0.7857
195 Epoch 83/10000
196   - 0s - loss: 0.4225 - acc: 0.8100 -
    val_loss: 0.4991 - val_acc: 0.7810
197 Epoch 84/10000
198   - 0s - loss: 0.4217 - acc: 0.8196 -
    val_loss: 0.4908 - val_acc: 0.7524
199 Epoch 85/10000
200   - 0s - loss: 0.4216 - acc: 0.8184 -
    val_loss: 0.4868 - val_acc: 0.7619
201 Epoch 86/10000
202   - 0s - loss: 0.4200 - acc: 0.8160 -
    val_loss: 0.4866 - val_acc: 0.7762
203 Epoch 87/10000
204   - 0s - loss: 0.4185 - acc: 0.8268 -
    val_loss: 0.4881 - val_acc: 0.7571
205 Epoch 88/10000
206   - 0s - loss: 0.4200 - acc: 0.8208 -
    val_loss: 0.4901 - val_acc: 0.7667
207 Epoch 89/10000
208   - 0s - loss: 0.4199 - acc: 0.8244 -
    val_loss: 0.4914 - val_acc: 0.7762
```

```
209 Epoch 90/10000
210   - 0s - loss: 0.4184 - acc: 0.8196 -
    val_loss: 0.4877 - val_acc: 0.7667
211 Epoch 91/10000
212   - 0s - loss: 0.4200 - acc: 0.8220 -
    val_loss: 0.4928 - val_acc: 0.7714
213 Epoch 92/10000
214   - 0s - loss: 0.4189 - acc: 0.8196 -
    val_loss: 0.4854 - val_acc: 0.7619
215 Epoch 93/10000
216   - 0s - loss: 0.4200 - acc: 0.8208 -
    val_loss: 0.4847 - val_acc: 0.7714
217 Epoch 94/10000
218   - 0s - loss: 0.4184 - acc: 0.8172 -
    val_loss: 0.4939 - val_acc: 0.7810
219 Epoch 95/10000
220   - 0s - loss: 0.4181 - acc: 0.8280 -
    val_loss: 0.4926 - val_acc: 0.7762
221 Epoch 96/10000
222   - 0s - loss: 0.4175 - acc: 0.8208 -
    val_loss: 0.4918 - val_acc: 0.7762
223 Epoch 97/10000
224   - 0s - loss: 0.4169 - acc: 0.8244 -
    val_loss: 0.4903 - val_acc: 0.7762
```

```
225 Epoch 98/10000
226   - 0s - loss: 0.4181 - acc: 0.8256 -
    val_loss: 0.4904 - val_acc: 0.7762
227 Epoch 99/10000
228   - 0s - loss: 0.4165 - acc: 0.8280 -
    val_loss: 0.4913 - val_acc: 0.7810
229 Epoch 100/10000
230   - 0s - loss: 0.4136 - acc: 0.8220 -
    val_loss: 0.4945 - val_acc: 0.7524
231 Epoch 101/10000
232   - 0s - loss: 0.4176 - acc: 0.8172 -
    val_loss: 0.4842 - val_acc: 0.7667
233 Epoch 102/10000
234   - 0s - loss: 0.4157 - acc: 0.8268 -
    val_loss: 0.4862 - val_acc: 0.7762
235 Epoch 103/10000
236   - 0s - loss: 0.4166 - acc: 0.8268 -
    val_loss: 0.4799 - val_acc: 0.7571
237 Epoch 104/10000
238   - 0s - loss: 0.4153 - acc: 0.8256 -
    val_loss: 0.4894 - val_acc: 0.7571
239 Epoch 105/10000
240   - 0s - loss: 0.4180 - acc: 0.8208 -
    val_loss: 0.4880 - val_acc: 0.7762
```



```
241 Epoch 106/10000
242   - 0s - loss: 0.4152 - acc: 0.8256 -
    val_loss: 0.4888 - val_acc: 0.7619
243 Epoch 107/10000
244   - 0s - loss: 0.4155 - acc: 0.8220 -
    val_loss: 0.4925 - val_acc: 0.7762
245 Epoch 108/10000
246   - 0s - loss: 0.4167 - acc: 0.8280 -
    val_loss: 0.4885 - val_acc: 0.7714
247 Epoch 109/10000
248   - 0s - loss: 0.4149 - acc: 0.8196 -
    val_loss: 0.4939 - val_acc: 0.7762
249 Epoch 110/10000
250   - 0s - loss: 0.4168 - acc: 0.8244 -
    val_loss: 0.4893 - val_acc: 0.7762
251 Epoch 111/10000
252   - 0s - loss: 0.4152 - acc: 0.8196 -
    val_loss: 0.4807 - val_acc: 0.7714
253 Epoch 112/10000
254   - 0s - loss: 0.4161 - acc: 0.8256 -
    val_loss: 0.4902 - val_acc: 0.7762
255 Epoch 113/10000
256   - 0s - loss: 0.4155 - acc: 0.8256 -
    val_loss: 0.4985 - val_acc: 0.7810
```

```
257 Epoch 114/10000
258   - 0s - loss: 0.4155 - acc: 0.8268 -
    val_loss: 0.4863 - val_acc: 0.7714
259 Epoch 115/10000
260   - 0s - loss: 0.4142 - acc: 0.8292 -
    val_loss: 0.4880 - val_acc: 0.7714
261 Epoch 116/10000
262   - 0s - loss: 0.4081 - acc: 0.8256 -
    val_loss: 0.5266 - val_acc: 0.7714
263 Epoch 117/10000
264   - 0s - loss: 0.4165 - acc: 0.8208 -
    val_loss: 0.5024 - val_acc: 0.7810
265 Epoch 118/10000
266   - 0s - loss: 0.4158 - acc: 0.8256 -
    val_loss: 0.4817 - val_acc: 0.7714
267 Epoch 119/10000
268   - 0s - loss: 0.4151 - acc: 0.8268 -
    val_loss: 0.4809 - val_acc: 0.7714
269 Epoch 120/10000
270   - 0s - loss: 0.4134 - acc: 0.8232 -
    val_loss: 0.4866 - val_acc: 0.7714
271 Epoch 121/10000
272   - 0s - loss: 0.4134 - acc: 0.8256 -
    val_loss: 0.5016 - val_acc: 0.7810
```

```
273 Epoch 122/10000
274   - 0s - loss: 0.4142 - acc: 0.8292 -
    val_loss: 0.4839 - val_acc: 0.7714
275 Epoch 123/10000
276   - 0s - loss: 0.4136 - acc: 0.8268 -
    val_loss: 0.4808 - val_acc: 0.7714
277 Epoch 124/10000
278   - 0s - loss: 0.4127 - acc: 0.8268 -
    val_loss: 0.4850 - val_acc: 0.7714
279 Epoch 125/10000
280   - 0s - loss: 0.4129 - acc: 0.8292 -
    val_loss: 0.4867 - val_acc: 0.7667
281 Epoch 126/10000
282   - 0s - loss: 0.4137 - acc: 0.8244 -
    val_loss: 0.4831 - val_acc: 0.7714
283 Epoch 127/10000
284   - 0s - loss: 0.4133 - acc: 0.8256 -
    val_loss: 0.4786 - val_acc: 0.7714
285 Epoch 128/10000
286   - 0s - loss: 0.4106 - acc: 0.8256 -
    val_loss: 0.4922 - val_acc: 0.7762
287 Epoch 129/10000
288   - 0s - loss: 0.4121 - acc: 0.8268 -
    val_loss: 0.4822 - val_acc: 0.7714
```

```
289 Epoch 130/10000
290   - 0s - loss: 0.4114 - acc: 0.8244 -
    val_loss: 0.4767 - val_acc: 0.7762
291 Epoch 131/10000
292   - 0s - loss: 0.4111 - acc: 0.8351 -
    val_loss: 0.4934 - val_acc: 0.7714
293 Epoch 132/10000
294   - 0s - loss: 0.4135 - acc: 0.8220 -
    val_loss: 0.4830 - val_acc: 0.7714
295 Epoch 133/10000
296   - 0s - loss: 0.4098 - acc: 0.8256 -
    val_loss: 0.4847 - val_acc: 0.7762
297 Epoch 134/10000
298   - 0s - loss: 0.4115 - acc: 0.8280 -
    val_loss: 0.4772 - val_acc: 0.7762
299 Epoch 135/10000
300   - 0s - loss: 0.4090 - acc: 0.8232 -
    val_loss: 0.5040 - val_acc: 0.7714
301 Epoch 136/10000
302   - 0s - loss: 0.4115 - acc: 0.8315 -
    val_loss: 0.5048 - val_acc: 0.7714
303 Epoch 137/10000
304   - 0s - loss: 0.4110 - acc: 0.8256 -
    val_loss: 0.5093 - val_acc: 0.7810
```

```
305 Epoch 138/10000
306   - 0s - loss: 0.4115 - acc: 0.8220 -
    val_loss: 0.4881 - val_acc: 0.7619
307 Epoch 139/10000
308   - 0s - loss: 0.4107 - acc: 0.8220 -
    val_loss: 0.4829 - val_acc: 0.7762
309 Epoch 140/10000
310   - 0s - loss: 0.4086 - acc: 0.8280 -
    val_loss: 0.4898 - val_acc: 0.7714
311
312 Epoch 00140: ReduceLROnPlateau reducing
    learning rate to 0.000100000000475.
313 Epoch 141/10000
314   - 0s - loss: 0.4067 - acc: 0.8292 -
    val_loss: 0.4864 - val_acc: 0.7619
315 Epoch 142/10000
316   - 0s - loss: 0.4059 - acc: 0.8268 -
    val_loss: 0.4855 - val_acc: 0.7619
317 Epoch 143/10000
318   - 0s - loss: 0.4051 - acc: 0.8268 -
    val_loss: 0.4848 - val_acc: 0.7619
319 Epoch 144/10000
320   - 0s - loss: 0.4050 - acc: 0.8256 -
    val_loss: 0.4842 - val_acc: 0.7619
```

```
321 Epoch 145/10000
322   - 0s - loss: 0.4049 - acc: 0.8268 -
    val_loss: 0.4843 - val_acc: 0.7619
323 Epoch 146/10000
324   - 0s - loss: 0.4047 - acc: 0.8256 -
    val_loss: 0.4835 - val_acc: 0.7619
325 Epoch 147/10000
326   - 0s - loss: 0.4045 - acc: 0.8256 -
    val_loss: 0.4834 - val_acc: 0.7619
327 Epoch 148/10000
328   - 0s - loss: 0.4045 - acc: 0.8256 -
    val_loss: 0.4831 - val_acc: 0.7619
329 Epoch 149/10000
330   - 0s - loss: 0.4045 - acc: 0.8268 -
    val_loss: 0.4828 - val_acc: 0.7619
331 Epoch 150/10000
332   - 0s - loss: 0.4044 - acc: 0.8256 -
    val_loss: 0.4831 - val_acc: 0.7619
333 Epoch 151/10000
334   - 0s - loss: 0.4044 - acc: 0.8280 -
    val_loss: 0.4826 - val_acc: 0.7619
335 Epoch 152/10000
336   - 0s - loss: 0.4045 - acc: 0.8256 -
    val_loss: 0.4822 - val_acc: 0.7619
```

```
337 Epoch 153/10000
338   - 0s - loss: 0.4045 - acc: 0.8280 -
    val_loss: 0.4821 - val_acc: 0.7619
339 Epoch 154/10000
340   - 0s - loss: 0.4043 - acc: 0.8256 -
    val_loss: 0.4816 - val_acc: 0.7619
341 Epoch 155/10000
342   - 0s - loss: 0.4045 - acc: 0.8268 -
    val_loss: 0.4824 - val_acc: 0.7619
343 Epoch 156/10000
344   - 0s - loss: 0.4041 - acc: 0.8292 -
    val_loss: 0.4826 - val_acc: 0.7619
345 Epoch 157/10000
346   - 0s - loss: 0.4043 - acc: 0.8280 -
    val_loss: 0.4830 - val_acc: 0.7667
347 Epoch 158/10000
348   - 0s - loss: 0.4043 - acc: 0.8292 -
    val_loss: 0.4828 - val_acc: 0.7619
349 Epoch 159/10000
350   - 0s - loss: 0.4043 - acc: 0.8256 -
    val_loss: 0.4825 - val_acc: 0.7619
351 Epoch 160/10000
352   - 0s - loss: 0.4044 - acc: 0.8268 -
    val_loss: 0.4828 - val_acc: 0.7619
```

```
353 Epoch 161/10000
354   - 0s - loss: 0.4041 - acc: 0.8268 -
    val_loss: 0.4830 - val_acc: 0.7667
355 Epoch 162/10000
356   - 0s - loss: 0.4042 - acc: 0.8268 -
    val_loss: 0.4830 - val_acc: 0.7667
357 Epoch 163/10000
358   - 0s - loss: 0.4043 - acc: 0.8268 -
    val_loss: 0.4820 - val_acc: 0.7619
359 Epoch 164/10000
360   - 0s - loss: 0.4040 - acc: 0.8268 -
    val_loss: 0.4820 - val_acc: 0.7619
361 Epoch 165/10000
362   - 0s - loss: 0.4043 - acc: 0.8268 -
    val_loss: 0.4826 - val_acc: 0.7619
363 Epoch 166/10000
364   - 0s - loss: 0.4040 - acc: 0.8280 -
    val_loss: 0.4823 - val_acc: 0.7619
365 Epoch 167/10000
366   - 0s - loss: 0.4041 - acc: 0.8280 -
    val_loss: 0.4820 - val_acc: 0.7619
367 Epoch 168/10000
368   - 0s - loss: 0.4040 - acc: 0.8292 -
    val_loss: 0.4825 - val_acc: 0.7667
```



```
369 Epoch 169/10000
370   - 0s - loss: 0.4041 - acc: 0.8292 -
    val_loss: 0.4822 - val_acc: 0.7619
371 Epoch 170/10000
372   - 0s - loss: 0.4040 - acc: 0.8280 -
    val_loss: 0.4818 - val_acc: 0.7619
373 Epoch 171/10000
374   - 0s - loss: 0.4041 - acc: 0.8268 -
    val_loss: 0.4818 - val_acc: 0.7619
375 Epoch 172/10000
376   - 0s - loss: 0.4040 - acc: 0.8280 -
    val_loss: 0.4820 - val_acc: 0.7619
377 Epoch 173/10000
378   - 0s - loss: 0.4039 - acc: 0.8280 -
    val_loss: 0.4824 - val_acc: 0.7667
379 Epoch 174/10000
380   - 0s - loss: 0.4039 - acc: 0.8280 -
    val_loss: 0.4821 - val_acc: 0.7619
381 Epoch 175/10000
382   - 0s - loss: 0.4041 - acc: 0.8256 -
    val_loss: 0.4820 - val_acc: 0.7619
383 Epoch 176/10000
384   - 0s - loss: 0.4039 - acc: 0.8292 -
    val_loss: 0.4819 - val_acc: 0.7619
```

```
385 Epoch 177/10000
386   - 0s - loss: 0.4038 - acc: 0.8292 -
    val_loss: 0.4813 - val_acc: 0.7619
387 Epoch 178/10000
388   - 0s - loss: 0.4041 - acc: 0.8256 -
    val_loss: 0.4818 - val_acc: 0.7619
389 Epoch 179/10000
390   - 0s - loss: 0.4039 - acc: 0.8268 -
    val_loss: 0.4818 - val_acc: 0.7619
391 Epoch 180/10000
392   - 0s - loss: 0.4038 - acc: 0.8280 -
    val_loss: 0.4822 - val_acc: 0.7619
393 Epoch 181/10000
394   - 0s - loss: 0.4037 - acc: 0.8292 -
    val_loss: 0.4817 - val_acc: 0.7619
395 Epoch 182/10000
396   - 0s - loss: 0.4038 - acc: 0.8256 -
    val_loss: 0.4820 - val_acc: 0.7619
397 Epoch 183/10000
398   - 0s - loss: 0.4039 - acc: 0.8268 -
    val_loss: 0.4823 - val_acc: 0.7762
399 Epoch 184/10000
400   - 0s - loss: 0.4036 - acc: 0.8280 -
    val_loss: 0.4817 - val_acc: 0.7619
```

```
401 Epoch 185/10000
402   - 0s - loss: 0.4037 - acc: 0.8256 -
    val_loss: 0.4815 - val_acc: 0.7619
403 Epoch 186/10000
404   - 0s - loss: 0.4039 - acc: 0.8268 -
    val_loss: 0.4812 - val_acc: 0.7619
405 Epoch 187/10000
406   - 0s - loss: 0.4037 - acc: 0.8256 -
    val_loss: 0.4811 - val_acc: 0.7619
407 Epoch 188/10000
408   - 0s - loss: 0.4036 - acc: 0.8256 -
    val_loss: 0.4813 - val_acc: 0.7619
409 Epoch 189/10000
410   - 0s - loss: 0.4038 - acc: 0.8244 -
    val_loss: 0.4814 - val_acc: 0.7619
411 Epoch 190/10000
412   - 0s - loss: 0.4037 - acc: 0.8244 -
    val_loss: 0.4812 - val_acc: 0.7619
413 Epoch 191/10000
414   - 0s - loss: 0.4036 - acc: 0.8268 -
    val_loss: 0.4815 - val_acc: 0.7619
415 Epoch 192/10000
416   - 0s - loss: 0.4038 - acc: 0.8268 -
    val_loss: 0.4818 - val_acc: 0.7619
```

```
417 Epoch 193/10000
418   - 0s - loss: 0.4036 - acc: 0.8268 -
    val_loss: 0.4814 - val_acc: 0.7619
419 Epoch 194/10000
420   - 0s - loss: 0.4035 - acc: 0.8256 -
    val_loss: 0.4815 - val_acc: 0.7619
421 Epoch 195/10000
422   - 0s - loss: 0.4037 - acc: 0.8256 -
    val_loss: 0.4816 - val_acc: 0.7619
423 Epoch 196/10000
424   - 0s - loss: 0.4035 - acc: 0.8268 -
    val_loss: 0.4814 - val_acc: 0.7619
425 Epoch 197/10000
426   - 0s - loss: 0.4037 - acc: 0.8256 -
    val_loss: 0.4815 - val_acc: 0.7619
427 Epoch 198/10000
428   - 0s - loss: 0.4035 - acc: 0.8280 -
    val_loss: 0.4819 - val_acc: 0.7619
429 Epoch 199/10000
430   - 0s - loss: 0.4035 - acc: 0.8268 -
    val_loss: 0.4815 - val_acc: 0.7619
431 Epoch 200/10000
432   - 0s - loss: 0.4035 - acc: 0.8244 -
    val_loss: 0.4814 - val_acc: 0.7619
```

```
433 Epoch 201/10000
434   - 0s - loss: 0.4037 - acc: 0.8268 -
    val_loss: 0.4815 - val_acc: 0.7619
435 Epoch 202/10000
436   - 0s - loss: 0.4035 - acc: 0.8244 -
    val_loss: 0.4813 - val_acc: 0.7619
437 Epoch 203/10000
438   - 0s - loss: 0.4033 - acc: 0.8280 -
    val_loss: 0.4813 - val_acc: 0.7619
439 Epoch 204/10000
440   - 0s - loss: 0.4035 - acc: 0.8256 -
    val_loss: 0.4813 - val_acc: 0.7619
441 Epoch 205/10000
442   - 0s - loss: 0.4035 - acc: 0.8256 -
    val_loss: 0.4818 - val_acc: 0.7619
443 Epoch 206/10000
444   - 0s - loss: 0.4035 - acc: 0.8268 -
    val_loss: 0.4819 - val_acc: 0.7619
445 Epoch 207/10000
446   - 0s - loss: 0.4035 - acc: 0.8256 -
    val_loss: 0.4820 - val_acc: 0.7619
447 Epoch 208/10000
448   - 0s - loss: 0.4033 - acc: 0.8280 -
    val_loss: 0.4818 - val_acc: 0.7619
```

```
449 Epoch 209/10000
450   - 0s - loss: 0.4035 - acc: 0.8268 -
      val_loss: 0.4823 - val_acc: 0.7619
451 Epoch 210/10000
452   - 0s - loss: 0.4033 - acc: 0.8256 -
      val_loss: 0.4822 - val_acc: 0.7667
453 Epoch 211/10000
454   - 0s - loss: 0.4035 - acc: 0.8256 -
      val_loss: 0.4823 - val_acc: 0.7619
455 Epoch 212/10000
456   - 0s - loss: 0.4032 - acc: 0.8256 -
      val_loss: 0.4827 - val_acc: 0.7619
457 Epoch 213/10000
458   - 0s - loss: 0.4033 - acc: 0.8268 -
      val_loss: 0.4820 - val_acc: 0.7619
459 Epoch 214/10000
460   - 0s - loss: 0.4033 - acc: 0.8256 -
      val_loss: 0.4815 - val_acc: 0.7619
461 Epoch 215/10000
462   - 0s - loss: 0.4031 - acc: 0.8268 -
      val_loss: 0.4817 - val_acc: 0.7619
463 Epoch 216/10000
464   - 0s - loss: 0.4034 - acc: 0.8256 -
      val_loss: 0.4814 - val_acc: 0.7619
```

```
465 Epoch 217/10000
466   - 0s - loss: 0.4032 - acc: 0.8268 -
    val_loss: 0.4819 - val_acc: 0.7619
467 Epoch 218/10000
468   - 0s - loss: 0.4033 - acc: 0.8256 -
    val_loss: 0.4814 - val_acc: 0.7619
469 Epoch 219/10000
470   - 0s - loss: 0.4032 - acc: 0.8256 -
    val_loss: 0.4817 - val_acc: 0.7619
471 Epoch 220/10000
472   - 0s - loss: 0.4032 - acc: 0.8280 -
    val_loss: 0.4822 - val_acc: 0.7619
473 Epoch 221/10000
474   - 0s - loss: 0.4032 - acc: 0.8256 -
    val_loss: 0.4824 - val_acc: 0.7619
475 Epoch 222/10000
476   - 0s - loss: 0.4030 - acc: 0.8268 -
    val_loss: 0.4822 - val_acc: 0.7619
477 Epoch 223/10000
478   - 0s - loss: 0.4032 - acc: 0.8256 -
    val_loss: 0.4820 - val_acc: 0.7619
479 Epoch 224/10000
480   - 0s - loss: 0.4031 - acc: 0.8268 -
    val_loss: 0.4818 - val_acc: 0.7619
```

```
481 Epoch 225/10000
482   - 0s - loss: 0.4030 - acc: 0.8280 -
    val_loss: 0.4818 - val_acc: 0.7619
483 Epoch 226/10000
484   - 0s - loss: 0.4030 - acc: 0.8268 -
    val_loss: 0.4810 - val_acc: 0.7619
485 Epoch 227/10000
486   - 0s - loss: 0.4030 - acc: 0.8256 -
    val_loss: 0.4821 - val_acc: 0.7619
487 Epoch 228/10000
488   - 0s - loss: 0.4030 - acc: 0.8268 -
    val_loss: 0.4825 - val_acc: 0.7714
489 Epoch 229/10000
490   - 0s - loss: 0.4031 - acc: 0.8268 -
    val_loss: 0.4821 - val_acc: 0.7619
491 Epoch 230/10000
492   - 0s - loss: 0.4029 - acc: 0.8256 -
    val_loss: 0.4818 - val_acc: 0.7619
493 Epoch 231/10000
494   - 0s - loss: 0.4030 - acc: 0.8292 -
    val_loss: 0.4822 - val_acc: 0.7619
495 Epoch 232/10000
496   - 0s - loss: 0.4031 - acc: 0.8280 -
    val_loss: 0.4826 - val_acc: 0.7714
```



```
497 Epoch 233/10000
498   - 0s - loss: 0.4029 - acc: 0.8268 -
    val_loss: 0.4820 - val_acc: 0.7714
499 Epoch 234/10000
500   - 0s - loss: 0.4028 - acc: 0.8256 -
    val_loss: 0.4822 - val_acc: 0.7667
501 Epoch 235/10000
502   - 0s - loss: 0.4029 - acc: 0.8268 -
    val_loss: 0.4828 - val_acc: 0.7714
503 Epoch 236/10000
504   - 0s - loss: 0.4029 - acc: 0.8268 -
    val_loss: 0.4824 - val_acc: 0.7619
505 Epoch 237/10000
506   - 0s - loss: 0.4029 - acc: 0.8292 -
    val_loss: 0.4829 - val_acc: 0.7667
507 Epoch 238/10000
508   - 0s - loss: 0.4029 - acc: 0.8280 -
    val_loss: 0.4827 - val_acc: 0.7714
509 Epoch 239/10000
510   - 0s - loss: 0.4029 - acc: 0.8280 -
    val_loss: 0.4818 - val_acc: 0.7619
511 Epoch 240/10000
512   - 0s - loss: 0.4029 - acc: 0.8256 -
    val_loss: 0.4821 - val_acc: 0.7667
```

513

514 Epoch 00240: ReduceLROnPlateau reducing
learning rate to 1.0000000475e-05.

515 Epoch 241/10000

516 - 0s - loss: 0.4023 - acc: 0.8268 -
val_loss: 0.4821 - val_acc: 0.7619

517 Epoch 242/10000

518 - 0s - loss: 0.4023 - acc: 0.8268 -
val_loss: 0.4820 - val_acc: 0.7619

519 Epoch 243/10000

520 - 0s - loss: 0.4023 - acc: 0.8268 -
val_loss: 0.4820 - val_acc: 0.7619

521 Epoch 244/10000

522 - 0s - loss: 0.4023 - acc: 0.8268 -
val_loss: 0.4820 - val_acc: 0.7667

523 Epoch 245/10000

524 - 0s - loss: 0.4022 - acc: 0.8268 -
val_loss: 0.4819 - val_acc: 0.7619

525 Epoch 246/10000

526 - 0s - loss: 0.4022 - acc: 0.8268 -
val_loss: 0.4819 - val_acc: 0.7619

527 Epoch 247/10000

528 - 0s - loss: 0.4022 - acc: 0.8268 -
val_loss: 0.4819 - val_acc: 0.7619

```
529 Epoch 248/10000
530   - 0s - loss: 0.4022 - acc: 0.8268 -
    val_loss: 0.4819 - val_acc: 0.7619
531 Epoch 249/10000
532   - 0s - loss: 0.4022 - acc: 0.8268 -
    val_loss: 0.4819 - val_acc: 0.7619
533 Epoch 250/10000
534   - 0s - loss: 0.4022 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
535 Epoch 251/10000
536   - 0s - loss: 0.4022 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
537 Epoch 252/10000
538   - 0s - loss: 0.4022 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
539 Epoch 253/10000
540   - 0s - loss: 0.4022 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
541 Epoch 254/10000
542   - 0s - loss: 0.4022 - acc: 0.8268 -
    val_loss: 0.4820 - val_acc: 0.7619
543 Epoch 255/10000
544   - 0s - loss: 0.4022 - acc: 0.8268 -
    val_loss: 0.4819 - val_acc: 0.7619
```

```
545 Epoch 256/10000
546   - 0s - loss: 0.4022 - acc: 0.8268 -
    val_loss: 0.4819 - val_acc: 0.7619
547 Epoch 257/10000
548   - 0s - loss: 0.4022 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
549 Epoch 258/10000
550   - 0s - loss: 0.4022 - acc: 0.8268 -
    val_loss: 0.4819 - val_acc: 0.7619
551 Epoch 259/10000
552   - 0s - loss: 0.4022 - acc: 0.8268 -
    val_loss: 0.4819 - val_acc: 0.7619
553 Epoch 260/10000
554   - 0s - loss: 0.4022 - acc: 0.8268 -
    val_loss: 0.4819 - val_acc: 0.7619
555 Epoch 261/10000
556   - 0s - loss: 0.4022 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
557 Epoch 262/10000
558   - 0s - loss: 0.4022 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
559 Epoch 263/10000
560   - 0s - loss: 0.4022 - acc: 0.8268 -
    val_loss: 0.4819 - val_acc: 0.7619
```

```
561 Epoch 264/10000
562   - 0s - loss: 0.4022 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
563 Epoch 265/10000
564   - 0s - loss: 0.4022 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
565 Epoch 266/10000
566   - 0s - loss: 0.4022 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
567 Epoch 267/10000
568   - 0s - loss: 0.4022 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
569 Epoch 268/10000
570   - 0s - loss: 0.4022 - acc: 0.8268 -
    val_loss: 0.4819 - val_acc: 0.7619
571 Epoch 269/10000
572   - 0s - loss: 0.4022 - acc: 0.8256 -
    val_loss: 0.4818 - val_acc: 0.7619
573 Epoch 270/10000
574   - 0s - loss: 0.4022 - acc: 0.8268 -
    val_loss: 0.4818 - val_acc: 0.7619
575 Epoch 271/10000
576   - 0s - loss: 0.4022 - acc: 0.8268 -
    val_loss: 0.4818 - val_acc: 0.7619
```

```
577 Epoch 272/10000
578   - 0s - loss: 0.4022 - acc: 0.8268 -
    val_loss: 0.4818 - val_acc: 0.7619
579 Epoch 273/10000
580   - 0s - loss: 0.4022 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
581 Epoch 274/10000
582   - 0s - loss: 0.4022 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
583 Epoch 275/10000
584   - 0s - loss: 0.4022 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
585 Epoch 276/10000
586   - 0s - loss: 0.4022 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
587 Epoch 277/10000
588   - 0s - loss: 0.4022 - acc: 0.8256 -
    val_loss: 0.4820 - val_acc: 0.7619
589 Epoch 278/10000
590   - 0s - loss: 0.4022 - acc: 0.8268 -
    val_loss: 0.4820 - val_acc: 0.7619
591 Epoch 279/10000
592   - 0s - loss: 0.4022 - acc: 0.8256 -
    val_loss: 0.4820 - val_acc: 0.7619
```

```
593 Epoch 280/10000
594   - 0s - loss: 0.4022 - acc: 0.8256 -
    val_loss: 0.4820 - val_acc: 0.7619
595 Epoch 281/10000
596   - 0s - loss: 0.4022 - acc: 0.8268 -
    val_loss: 0.4821 - val_acc: 0.7619
597 Epoch 282/10000
598   - 0s - loss: 0.4022 - acc: 0.8268 -
    val_loss: 0.4821 - val_acc: 0.7619
599 Epoch 283/10000
600   - 0s - loss: 0.4022 - acc: 0.8268 -
    val_loss: 0.4820 - val_acc: 0.7619
601 Epoch 284/10000
602   - 0s - loss: 0.4022 - acc: 0.8268 -
    val_loss: 0.4820 - val_acc: 0.7619
603 Epoch 285/10000
604   - 0s - loss: 0.4022 - acc: 0.8268 -
    val_loss: 0.4820 - val_acc: 0.7619
605 Epoch 286/10000
606   - 0s - loss: 0.4022 - acc: 0.8256 -
    val_loss: 0.4820 - val_acc: 0.7619
607 Epoch 287/10000
608   - 0s - loss: 0.4022 - acc: 0.8256 -
    val_loss: 0.4820 - val_acc: 0.7619
```

```
609 Epoch 288/10000
610   - 0s - loss: 0.4022 - acc: 0.8268 -
      val_loss: 0.4820 - val_acc: 0.7619
611 Epoch 289/10000
612   - 0s - loss: 0.4022 - acc: 0.8256 -
      val_loss: 0.4820 - val_acc: 0.7619
613 Epoch 290/10000
614   - 0s - loss: 0.4021 - acc: 0.8256 -
      val_loss: 0.4820 - val_acc: 0.7619
615 Epoch 291/10000
616   - 0s - loss: 0.4021 - acc: 0.8256 -
      val_loss: 0.4820 - val_acc: 0.7619
617 Epoch 292/10000
618   - 0s - loss: 0.4021 - acc: 0.8256 -
      val_loss: 0.4820 - val_acc: 0.7619
619 Epoch 293/10000
620   - 0s - loss: 0.4021 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
621 Epoch 294/10000
622   - 0s - loss: 0.4022 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
623 Epoch 295/10000
624   - 0s - loss: 0.4021 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
```



```
625 Epoch 296/10000
626   - 0s - loss: 0.4021 - acc: 0.8268 -
    val_loss: 0.4820 - val_acc: 0.7619
627 Epoch 297/10000
628   - 0s - loss: 0.4021 - acc: 0.8268 -
    val_loss: 0.4820 - val_acc: 0.7619
629 Epoch 298/10000
630   - 0s - loss: 0.4022 - acc: 0.8268 -
    val_loss: 0.4820 - val_acc: 0.7619
631 Epoch 299/10000
632   - 0s - loss: 0.4021 - acc: 0.8268 -
    val_loss: 0.4820 - val_acc: 0.7619
633 Epoch 300/10000
634   - 0s - loss: 0.4021 - acc: 0.8256 -
    val_loss: 0.4820 - val_acc: 0.7619
635 Epoch 301/10000
636   - 0s - loss: 0.4021 - acc: 0.8256 -
    val_loss: 0.4820 - val_acc: 0.7619
637 Epoch 302/10000
638   - 0s - loss: 0.4021 - acc: 0.8268 -
    val_loss: 0.4819 - val_acc: 0.7619
639 Epoch 303/10000
640   - 0s - loss: 0.4021 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
```

```
641 Epoch 304/10000
642   - 0s - loss: 0.4021 - acc: 0.8268 -
    val_loss: 0.4819 - val_acc: 0.7619
643 Epoch 305/10000
644   - 0s - loss: 0.4021 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
645 Epoch 306/10000
646   - 0s - loss: 0.4021 - acc: 0.8256 -
    val_loss: 0.4820 - val_acc: 0.7619
647 Epoch 307/10000
648   - 0s - loss: 0.4021 - acc: 0.8268 -
    val_loss: 0.4820 - val_acc: 0.7619
649 Epoch 308/10000
650   - 0s - loss: 0.4021 - acc: 0.8268 -
    val_loss: 0.4820 - val_acc: 0.7619
651 Epoch 309/10000
652   - 0s - loss: 0.4021 - acc: 0.8256 -
    val_loss: 0.4820 - val_acc: 0.7619
653 Epoch 310/10000
654   - 0s - loss: 0.4021 - acc: 0.8268 -
    val_loss: 0.4820 - val_acc: 0.7619
655 Epoch 311/10000
656   - 0s - loss: 0.4021 - acc: 0.8268 -
    val_loss: 0.4821 - val_acc: 0.7619
```

```
657 Epoch 312/10000
658   - 0s - loss: 0.4021 - acc: 0.8268 -
    val_loss: 0.4821 - val_acc: 0.7619
659 Epoch 313/10000
660   - 0s - loss: 0.4021 - acc: 0.8268 -
    val_loss: 0.4820 - val_acc: 0.7619
661 Epoch 314/10000
662   - 0s - loss: 0.4021 - acc: 0.8268 -
    val_loss: 0.4820 - val_acc: 0.7619
663 Epoch 315/10000
664   - 0s - loss: 0.4021 - acc: 0.8256 -
    val_loss: 0.4820 - val_acc: 0.7619
665 Epoch 316/10000
666   - 0s - loss: 0.4021 - acc: 0.8268 -
    val_loss: 0.4820 - val_acc: 0.7619
667 Epoch 317/10000
668   - 0s - loss: 0.4021 - acc: 0.8268 -
    val_loss: 0.4820 - val_acc: 0.7619
669 Epoch 318/10000
670   - 0s - loss: 0.4021 - acc: 0.8268 -
    val_loss: 0.4819 - val_acc: 0.7619
671 Epoch 319/10000
672   - 0s - loss: 0.4021 - acc: 0.8268 -
    val_loss: 0.4819 - val_acc: 0.7619
```

```
673 Epoch 320/10000
674   - 0s - loss: 0.4021 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
675 Epoch 321/10000
676   - 0s - loss: 0.4021 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
677 Epoch 322/10000
678   - 0s - loss: 0.4021 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
679 Epoch 323/10000
680   - 0s - loss: 0.4021 - acc: 0.8256 -
    val_loss: 0.4820 - val_acc: 0.7619
681 Epoch 324/10000
682   - 0s - loss: 0.4021 - acc: 0.8256 -
    val_loss: 0.4820 - val_acc: 0.7619
683 Epoch 325/10000
684   - 0s - loss: 0.4021 - acc: 0.8256 -
    val_loss: 0.4820 - val_acc: 0.7619
685 Epoch 326/10000
686   - 0s - loss: 0.4021 - acc: 0.8256 -
    val_loss: 0.4820 - val_acc: 0.7619
687 Epoch 327/10000
688   - 0s - loss: 0.4021 - acc: 0.8256 -
    val_loss: 0.4820 - val_acc: 0.7619
```

```
689 Epoch 328/10000
690   - 0s - loss: 0.4021 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
691 Epoch 329/10000
692   - 0s - loss: 0.4021 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
693 Epoch 330/10000
694   - 0s - loss: 0.4021 - acc: 0.8268 -
    val_loss: 0.4818 - val_acc: 0.7619
695 Epoch 331/10000
696   - 0s - loss: 0.4021 - acc: 0.8268 -
    val_loss: 0.4818 - val_acc: 0.7619
697 Epoch 332/10000
698   - 0s - loss: 0.4021 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
699 Epoch 333/10000
700   - 0s - loss: 0.4021 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
701 Epoch 334/10000
702   - 0s - loss: 0.4021 - acc: 0.8256 -
    val_loss: 0.4818 - val_acc: 0.7619
703 Epoch 335/10000
704   - 0s - loss: 0.4021 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
```

```
705 Epoch 336/10000
706   - 0s - loss: 0.4021 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
707 Epoch 337/10000
708   - 0s - loss: 0.4021 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
709 Epoch 338/10000
710   - 0s - loss: 0.4021 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
711 Epoch 339/10000
712   - 0s - loss: 0.4021 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
713 Epoch 340/10000
714   - 0s - loss: 0.4021 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
715
716 Epoch 00340: ReduceLROnPlateau reducing
    learning rate to 1.00000006569e-06.
717 Epoch 341/10000
718   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
719 Epoch 342/10000
720   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
```

```
721 Epoch 343/10000
722   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4820 - val_acc: 0.7619
723 Epoch 344/10000
724   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4820 - val_acc: 0.7619
725 Epoch 345/10000
726   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4820 - val_acc: 0.7619
727 Epoch 346/10000
728   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4820 - val_acc: 0.7619
729 Epoch 347/10000
730   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4820 - val_acc: 0.7619
731 Epoch 348/10000
732   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4820 - val_acc: 0.7619
733 Epoch 349/10000
734   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4820 - val_acc: 0.7619
735 Epoch 350/10000
736   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4820 - val_acc: 0.7619
```

```
737 Epoch 351/10000
738   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4820 - val_acc: 0.7619
739 Epoch 352/10000
740   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4820 - val_acc: 0.7619
741 Epoch 353/10000
742   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4820 - val_acc: 0.7619
743 Epoch 354/10000
744   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4820 - val_acc: 0.7619
745 Epoch 355/10000
746   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
747 Epoch 356/10000
748   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
749 Epoch 357/10000
750   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
751 Epoch 358/10000
752   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
```



```
753 Epoch 359/10000
754   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
755 Epoch 360/10000
756   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
757 Epoch 361/10000
758   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
759 Epoch 362/10000
760   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
761 Epoch 363/10000
762   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
763 Epoch 364/10000
764   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
765 Epoch 365/10000
766   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
767 Epoch 366/10000
768   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
```

```
769 Epoch 367/10000
770   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
771 Epoch 368/10000
772   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
773 Epoch 369/10000
774   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
775 Epoch 370/10000
776   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
777 Epoch 371/10000
778   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
779 Epoch 372/10000
780   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
781 Epoch 373/10000
782   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
783 Epoch 374/10000
784   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
```

```
785 Epoch 375/10000
786   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
787 Epoch 376/10000
788   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
789 Epoch 377/10000
790   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
791 Epoch 378/10000
792   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
793 Epoch 379/10000
794   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
795 Epoch 380/10000
796   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
797 Epoch 381/10000
798   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
799 Epoch 382/10000
800   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
```

```
801 Epoch 383/10000
802   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
803 Epoch 384/10000
804   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
805 Epoch 385/10000
806   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
807 Epoch 386/10000
808   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
809 Epoch 387/10000
810   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
811 Epoch 388/10000
812   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
813 Epoch 389/10000
814   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
815 Epoch 390/10000
816   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
```

```
817 Epoch 391/10000
818   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
819 Epoch 392/10000
820   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
821 Epoch 393/10000
822   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
823 Epoch 394/10000
824   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
825 Epoch 395/10000
826   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
827 Epoch 396/10000
828   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
829 Epoch 397/10000
830   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
831 Epoch 398/10000
832   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
```

```
833 Epoch 399/10000
834   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
835 Epoch 400/10000
836   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
837 Epoch 401/10000
838   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
839 Epoch 402/10000
840   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
841 Epoch 403/10000
842   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
843 Epoch 404/10000
844   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4820 - val_acc: 0.7619
845 Epoch 405/10000
846   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
847 Epoch 406/10000
848   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
```

```
849 Epoch 407/10000
850   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
851 Epoch 408/10000
852   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
853 Epoch 409/10000
854   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
855 Epoch 410/10000
856   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
857 Epoch 411/10000
858   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
859 Epoch 412/10000
860   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
861 Epoch 413/10000
862   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
863 Epoch 414/10000
864   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
```

```
865 Epoch 415/10000
866   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
867 Epoch 416/10000
868   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
869 Epoch 417/10000
870   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
871 Epoch 418/10000
872   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
873 Epoch 419/10000
874   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
875 Epoch 420/10000
876   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
877 Epoch 421/10000
878   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
879 Epoch 422/10000
880   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
```



```
881 Epoch 423/10000
882   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
883 Epoch 424/10000
884   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
885 Epoch 425/10000
886   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
887 Epoch 426/10000
888   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
889 Epoch 427/10000
890   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
891 Epoch 428/10000
892   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
893 Epoch 429/10000
894   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4820 - val_acc: 0.7619
895 Epoch 430/10000
896   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4820 - val_acc: 0.7619
```

```
897 Epoch 431/10000
898   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4820 - val_acc: 0.7619
899 Epoch 432/10000
900   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4820 - val_acc: 0.7619
901 Epoch 433/10000
902   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4820 - val_acc: 0.7619
903 Epoch 434/10000
904   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4820 - val_acc: 0.7619
905 Epoch 435/10000
906   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4820 - val_acc: 0.7619
907 Epoch 436/10000
908   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4820 - val_acc: 0.7619
909 Epoch 437/10000
910   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4820 - val_acc: 0.7619
911 Epoch 438/10000
912   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4820 - val_acc: 0.7619
```

```
913 Epoch 439/10000
914   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4820 - val_acc: 0.7619
915 Epoch 440/10000
916   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4820 - val_acc: 0.7619
917
918 Epoch 00440: ReduceLROnPlateau reducing
    learning rate to 1e-06.
919 Epoch 441/10000
920   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4820 - val_acc: 0.7619
921 Epoch 442/10000
922   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4820 - val_acc: 0.7619
923 Epoch 443/10000
924   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4820 - val_acc: 0.7619
925 Epoch 444/10000
926   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4820 - val_acc: 0.7619
927 Epoch 445/10000
928   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4820 - val_acc: 0.7619
```

```
929 Epoch 446/10000
930   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4820 - val_acc: 0.7619
931 Epoch 447/10000
932   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4820 - val_acc: 0.7619
933 Epoch 448/10000
934   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4820 - val_acc: 0.7619
935 Epoch 449/10000
936   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4820 - val_acc: 0.7619
937 Epoch 450/10000
938   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4820 - val_acc: 0.7619
939 Epoch 451/10000
940   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4820 - val_acc: 0.7619
941 Epoch 452/10000
942   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4820 - val_acc: 0.7619
943 Epoch 453/10000
944   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4820 - val_acc: 0.7619
```

```
945 Epoch 454/10000
946   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4820 - val_acc: 0.7619
947 Epoch 455/10000
948   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4820 - val_acc: 0.7619
949 Epoch 456/10000
950   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4820 - val_acc: 0.7619
951 Epoch 457/10000
952   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4820 - val_acc: 0.7619
953 Epoch 458/10000
954   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4820 - val_acc: 0.7619
955 Epoch 459/10000
956   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
957 Epoch 460/10000
958   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4820 - val_acc: 0.7619
959 Epoch 461/10000
960   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4820 - val_acc: 0.7619
```

```
961 Epoch 462/10000
962   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4820 - val_acc: 0.7619
963 Epoch 463/10000
964   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4820 - val_acc: 0.7619
965 Epoch 464/10000
966   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4820 - val_acc: 0.7619
967 Epoch 465/10000
968   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4820 - val_acc: 0.7619
969 Epoch 466/10000
970   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4820 - val_acc: 0.7619
971 Epoch 467/10000
972   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4820 - val_acc: 0.7619
973 Epoch 468/10000
974   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4820 - val_acc: 0.7619
975 Epoch 469/10000
976   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4820 - val_acc: 0.7619
```

```
977 Epoch 470/10000
978   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4820 - val_acc: 0.7619
979 Epoch 471/10000
980   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4820 - val_acc: 0.7619
981 Epoch 472/10000
982   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
983 Epoch 473/10000
984   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4820 - val_acc: 0.7619
985 Epoch 474/10000
986   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4820 - val_acc: 0.7619
987 Epoch 475/10000
988   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4820 - val_acc: 0.7619
989 Epoch 476/10000
990   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4820 - val_acc: 0.7619
991 Epoch 477/10000
992   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4820 - val_acc: 0.7619
```

```
993 Epoch 478/10000
994   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4820 - val_acc: 0.7619
995 Epoch 479/10000
996   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4820 - val_acc: 0.7619
997 Epoch 480/10000
998   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4820 - val_acc: 0.7619
999 Epoch 481/10000
1000  - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4820 - val_acc: 0.7619
1001 Epoch 482/10000
1002  - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4820 - val_acc: 0.7619
1003 Epoch 483/10000
1004  - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4820 - val_acc: 0.7619
1005 Epoch 484/10000
1006  - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4820 - val_acc: 0.7619
1007 Epoch 485/10000
1008  - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4820 - val_acc: 0.7619
```



```
1009 Epoch 486/10000
1010   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4820 - val_acc: 0.7619
1011 Epoch 487/10000
1012   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4820 - val_acc: 0.7619
1013 Epoch 488/10000
1014   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4820 - val_acc: 0.7619
1015 Epoch 489/10000
1016   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1017 Epoch 490/10000
1018   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4820 - val_acc: 0.7619
1019 Epoch 491/10000
1020   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4820 - val_acc: 0.7619
1021 Epoch 492/10000
1022   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4820 - val_acc: 0.7619
1023 Epoch 493/10000
1024   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4820 - val_acc: 0.7619
```

```
1025 Epoch 494/10000
1026   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4820 - val_acc: 0.7619
1027 Epoch 495/10000
1028   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4820 - val_acc: 0.7619
1029 Epoch 496/10000
1030   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4820 - val_acc: 0.7619
1031 Epoch 497/10000
1032   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4820 - val_acc: 0.7619
1033 Epoch 498/10000
1034   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4820 - val_acc: 0.7619
1035 Epoch 499/10000
1036   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4820 - val_acc: 0.7619
1037 Epoch 500/10000
1038   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4820 - val_acc: 0.7619
1039 Epoch 501/10000
1040   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4820 - val_acc: 0.7619
```

```
1041 Epoch 502/10000
1042   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4820 - val_acc: 0.7619
1043 Epoch 503/10000
1044   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4820 - val_acc: 0.7619
1045 Epoch 504/10000
1046   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4820 - val_acc: 0.7619
1047 Epoch 505/10000
1048   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4820 - val_acc: 0.7619
1049 Epoch 506/10000
1050   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4820 - val_acc: 0.7619
1051 Epoch 507/10000
1052   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4820 - val_acc: 0.7619
1053 Epoch 508/10000
1054   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4820 - val_acc: 0.7619
1055 Epoch 509/10000
1056   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4820 - val_acc: 0.7619
```

```
1057 Epoch 510/10000
1058   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4820 - val_acc: 0.7619
1059 Epoch 511/10000
1060   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4820 - val_acc: 0.7619
1061 Epoch 512/10000
1062   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4820 - val_acc: 0.7619
1063 Epoch 513/10000
1064   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4820 - val_acc: 0.7619
1065 Epoch 514/10000
1066   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4820 - val_acc: 0.7619
1067 Epoch 515/10000
1068   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4820 - val_acc: 0.7619
1069 Epoch 516/10000
1070   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4820 - val_acc: 0.7619
1071 Epoch 517/10000
1072   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4820 - val_acc: 0.7619
```

```
1073 Epoch 518/10000
1074   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4820 - val_acc: 0.7619
1075 Epoch 519/10000
1076   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4820 - val_acc: 0.7619
1077 Epoch 520/10000
1078   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4820 - val_acc: 0.7619
1079 Epoch 521/10000
1080   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4820 - val_acc: 0.7619
1081 Epoch 522/10000
1082   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4820 - val_acc: 0.7619
1083 Epoch 523/10000
1084   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4820 - val_acc: 0.7619
1085 Epoch 524/10000
1086   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4820 - val_acc: 0.7619
1087 Epoch 525/10000
1088   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4820 - val_acc: 0.7619
```

```
1089 Epoch 526/10000
1090   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4820 - val_acc: 0.7619
1091 Epoch 527/10000
1092   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4820 - val_acc: 0.7619
1093 Epoch 528/10000
1094   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4820 - val_acc: 0.7619
1095 Epoch 529/10000
1096   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4820 - val_acc: 0.7619
1097 Epoch 530/10000
1098   - 0s - loss: 0.4020 - acc: 0.8268 -
      val_loss: 0.4820 - val_acc: 0.7619
1099 Epoch 531/10000
1100   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4820 - val_acc: 0.7619
1101 Epoch 532/10000
1102   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4820 - val_acc: 0.7619
1103 Epoch 533/10000
1104   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4820 - val_acc: 0.7619
```

```
1105 Epoch 534/10000
1106   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4820 - val_acc: 0.7619
1107 Epoch 535/10000
1108   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4820 - val_acc: 0.7619
1109 Epoch 536/10000
1110   - 0s - loss: 0.4020 - acc: 0.8268 -
      val_loss: 0.4820 - val_acc: 0.7619
1111 Epoch 537/10000
1112   - 0s - loss: 0.4020 - acc: 0.8268 -
      val_loss: 0.4820 - val_acc: 0.7619
1113 Epoch 538/10000
1114   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4820 - val_acc: 0.7619
1115 Epoch 539/10000
1116   - 0s - loss: 0.4020 - acc: 0.8268 -
      val_loss: 0.4820 - val_acc: 0.7619
1117 Epoch 540/10000
1118   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4820 - val_acc: 0.7619
1119 Epoch 541/10000
1120   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4820 - val_acc: 0.7619
```

```
1121 Epoch 542/10000
1122   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4820 - val_acc: 0.7619
1123 Epoch 543/10000
1124   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4820 - val_acc: 0.7619
1125 Epoch 544/10000
1126   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4820 - val_acc: 0.7619
1127 Epoch 545/10000
1128   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4820 - val_acc: 0.7619
1129 Epoch 546/10000
1130   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4820 - val_acc: 0.7619
1131 Epoch 547/10000
1132   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4820 - val_acc: 0.7619
1133 Epoch 548/10000
1134   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4820 - val_acc: 0.7619
1135 Epoch 549/10000
1136   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4820 - val_acc: 0.7619
```



```
1137 Epoch 550/10000
1138   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4820 - val_acc: 0.7619
1139 Epoch 551/10000
1140   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4820 - val_acc: 0.7619
1141 Epoch 552/10000
1142   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4820 - val_acc: 0.7619
1143 Epoch 553/10000
1144   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4820 - val_acc: 0.7619
1145 Epoch 554/10000
1146   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4820 - val_acc: 0.7619
1147 Epoch 555/10000
1148   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4820 - val_acc: 0.7619
1149 Epoch 556/10000
1150   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1151 Epoch 557/10000
1152   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
```

```
1153 Epoch 558/10000
1154   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1155 Epoch 559/10000
1156   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1157 Epoch 560/10000
1158   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4820 - val_acc: 0.7619
1159 Epoch 561/10000
1160   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1161 Epoch 562/10000
1162   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4820 - val_acc: 0.7619
1163 Epoch 563/10000
1164   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1165 Epoch 564/10000
1166   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1167 Epoch 565/10000
1168   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
```

```
1169 Epoch 566/10000
1170   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1171 Epoch 567/10000
1172   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1173 Epoch 568/10000
1174   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1175 Epoch 569/10000
1176   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1177 Epoch 570/10000
1178   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1179 Epoch 571/10000
1180   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1181 Epoch 572/10000
1182   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1183 Epoch 573/10000
1184   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
```

```
1185 Epoch 574/10000
1186   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1187 Epoch 575/10000
1188   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1189 Epoch 576/10000
1190   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1191 Epoch 577/10000
1192   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1193 Epoch 578/10000
1194   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1195 Epoch 579/10000
1196   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1197 Epoch 580/10000
1198   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1199 Epoch 581/10000
1200   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
```

```
1201 Epoch 582/10000
1202   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1203 Epoch 583/10000
1204   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1205 Epoch 584/10000
1206   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1207 Epoch 585/10000
1208   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1209 Epoch 586/10000
1210   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1211 Epoch 587/10000
1212   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1213 Epoch 588/10000
1214   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1215 Epoch 589/10000
1216   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
```

```
1217 Epoch 590/10000
1218   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1219 Epoch 591/10000
1220   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1221 Epoch 592/10000
1222   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1223 Epoch 593/10000
1224   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1225 Epoch 594/10000
1226   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1227 Epoch 595/10000
1228   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4820 - val_acc: 0.7619
1229 Epoch 596/10000
1230   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4820 - val_acc: 0.7619
1231 Epoch 597/10000
1232   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
```

```
1233 Epoch 598/10000
1234   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1235 Epoch 599/10000
1236   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1237 Epoch 600/10000
1238   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1239 Epoch 601/10000
1240   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1241 Epoch 602/10000
1242   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1243 Epoch 603/10000
1244   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1245 Epoch 604/10000
1246   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1247 Epoch 605/10000
1248   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
```

```
1249 Epoch 606/10000
1250   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1251 Epoch 607/10000
1252   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1253 Epoch 608/10000
1254   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1255 Epoch 609/10000
1256   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1257 Epoch 610/10000
1258   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1259 Epoch 611/10000
1260   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1261 Epoch 612/10000
1262   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1263 Epoch 613/10000
1264   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
```



```
1265 Epoch 614/10000
1266   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1267 Epoch 615/10000
1268   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1269 Epoch 616/10000
1270   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1271 Epoch 617/10000
1272   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1273 Epoch 618/10000
1274   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1275 Epoch 619/10000
1276   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1277 Epoch 620/10000
1278   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1279 Epoch 621/10000
1280   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
```

```
1281 Epoch 622/10000
1282   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1283 Epoch 623/10000
1284   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1285 Epoch 624/10000
1286   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1287 Epoch 625/10000
1288   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1289 Epoch 626/10000
1290   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1291 Epoch 627/10000
1292   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1293 Epoch 628/10000
1294   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1295 Epoch 629/10000
1296   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
```

```
1297 Epoch 630/10000
1298   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1299 Epoch 631/10000
1300   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1301 Epoch 632/10000
1302   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1303 Epoch 633/10000
1304   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1305 Epoch 634/10000
1306   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1307 Epoch 635/10000
1308   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1309 Epoch 636/10000
1310   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1311 Epoch 637/10000
1312   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
```

```
1313 Epoch 638/10000
1314   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1315 Epoch 639/10000
1316   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1317 Epoch 640/10000
1318   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1319 Epoch 641/10000
1320   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1321 Epoch 642/10000
1322   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1323 Epoch 643/10000
1324   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1325 Epoch 644/10000
1326   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1327 Epoch 645/10000
1328   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
```

```
1329 Epoch 646/10000
1330   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1331 Epoch 647/10000
1332   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1333 Epoch 648/10000
1334   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1335 Epoch 649/10000
1336   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1337 Epoch 650/10000
1338   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1339 Epoch 651/10000
1340   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1341 Epoch 652/10000
1342   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1343 Epoch 653/10000
1344   - 0s - loss: 0.4020 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
```

```
1345 Epoch 654/10000
1346   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1347 Epoch 655/10000
1348   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1349 Epoch 656/10000
1350   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1351 Epoch 657/10000
1352   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1353 Epoch 658/10000
1354   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1355 Epoch 659/10000
1356   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1357 Epoch 660/10000
1358   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1359 Epoch 661/10000
1360   - 0s - loss: 0.4020 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
```

```
1361 Epoch 662/10000
1362   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1363 Epoch 663/10000
1364   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1365 Epoch 664/10000
1366   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1367 Epoch 665/10000
1368   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1369 Epoch 666/10000
1370   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1371 Epoch 667/10000
1372   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1373 Epoch 668/10000
1374   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1375 Epoch 669/10000
1376   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
```

```
1377 Epoch 670/10000
1378   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1379 Epoch 671/10000
1380   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1381 Epoch 672/10000
1382   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1383 Epoch 673/10000
1384   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1385 Epoch 674/10000
1386   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1387 Epoch 675/10000
1388   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1389 Epoch 676/10000
1390   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1391 Epoch 677/10000
1392   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
```



```
1393 Epoch 678/10000
1394   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1395 Epoch 679/10000
1396   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1397 Epoch 680/10000
1398   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1399 Epoch 681/10000
1400   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1401 Epoch 682/10000
1402   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1403 Epoch 683/10000
1404   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1405 Epoch 684/10000
1406   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1407 Epoch 685/10000
1408   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
```

```
1409 Epoch 686/10000
1410   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1411 Epoch 687/10000
1412   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1413 Epoch 688/10000
1414   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1415 Epoch 689/10000
1416   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1417 Epoch 690/10000
1418   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1419 Epoch 691/10000
1420   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1421 Epoch 692/10000
1422   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1423 Epoch 693/10000
1424   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
```

```
1425 Epoch 694/10000
1426   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1427 Epoch 695/10000
1428   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1429 Epoch 696/10000
1430   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1431 Epoch 697/10000
1432   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1433 Epoch 698/10000
1434   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1435 Epoch 699/10000
1436   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1437 Epoch 700/10000
1438   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1439 Epoch 701/10000
1440   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
```

```
1441 Epoch 702/10000
1442   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1443 Epoch 703/10000
1444   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1445 Epoch 704/10000
1446   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1447 Epoch 705/10000
1448   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1449 Epoch 706/10000
1450   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1451 Epoch 707/10000
1452   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1453 Epoch 708/10000
1454   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1455 Epoch 709/10000
1456   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
```

```
1457 Epoch 710/10000
1458   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1459 Epoch 711/10000
1460   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1461 Epoch 712/10000
1462   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1463 Epoch 713/10000
1464   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1465 Epoch 714/10000
1466   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1467 Epoch 715/10000
1468   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1469 Epoch 716/10000
1470   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1471 Epoch 717/10000
1472   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
```

```
1473 Epoch 718/10000
1474   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1475 Epoch 719/10000
1476   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1477 Epoch 720/10000
1478   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1479 Epoch 721/10000
1480   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1481 Epoch 722/10000
1482   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1483 Epoch 723/10000
1484   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1485 Epoch 724/10000
1486   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1487 Epoch 725/10000
1488   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
```

```
1489 Epoch 726/10000
1490   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1491 Epoch 727/10000
1492   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1493 Epoch 728/10000
1494   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1495 Epoch 729/10000
1496   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1497 Epoch 730/10000
1498   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1499 Epoch 731/10000
1500   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1501 Epoch 732/10000
1502   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1503 Epoch 733/10000
1504   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
```

```
1505 Epoch 734/10000
1506   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1507 Epoch 735/10000
1508   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1509 Epoch 736/10000
1510   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1511 Epoch 737/10000
1512   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1513 Epoch 738/10000
1514   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1515 Epoch 739/10000
1516   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1517 Epoch 740/10000
1518   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1519 Epoch 741/10000
1520   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
```



```
1521 Epoch 742/10000
1522   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1523 Epoch 743/10000
1524   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1525 Epoch 744/10000
1526   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1527 Epoch 745/10000
1528   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1529 Epoch 746/10000
1530   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1531 Epoch 747/10000
1532   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1533 Epoch 748/10000
1534   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1535 Epoch 749/10000
1536   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
```

```
1537 Epoch 750/10000
1538   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1539 Epoch 751/10000
1540   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1541 Epoch 752/10000
1542   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1543 Epoch 753/10000
1544   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1545 Epoch 754/10000
1546   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1547 Epoch 755/10000
1548   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1549 Epoch 756/10000
1550   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1551 Epoch 757/10000
1552   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
```

```
1553 Epoch 758/10000
1554   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1555 Epoch 759/10000
1556   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4818 - val_acc: 0.7619
1557 Epoch 760/10000
1558   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1559 Epoch 761/10000
1560   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4818 - val_acc: 0.7619
1561 Epoch 762/10000
1562   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1563 Epoch 763/10000
1564   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1565 Epoch 764/10000
1566   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1567 Epoch 765/10000
1568   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
```

```
1569 Epoch 766/10000
1570   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1571 Epoch 767/10000
1572   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1573 Epoch 768/10000
1574   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1575 Epoch 769/10000
1576   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1577 Epoch 770/10000
1578   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1579 Epoch 771/10000
1580   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1581 Epoch 772/10000
1582   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1583 Epoch 773/10000
1584   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
```

```
1585 Epoch 774/10000
1586   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1587 Epoch 775/10000
1588   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1589 Epoch 776/10000
1590   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1591 Epoch 777/10000
1592   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1593 Epoch 778/10000
1594   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1595 Epoch 779/10000
1596   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1597 Epoch 780/10000
1598   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1599 Epoch 781/10000
1600   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
```

```
1601 Epoch 782/10000
1602   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1603 Epoch 783/10000
1604   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1605 Epoch 784/10000
1606   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1607 Epoch 785/10000
1608   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1609 Epoch 786/10000
1610   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1611 Epoch 787/10000
1612   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1613 Epoch 788/10000
1614   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1615 Epoch 789/10000
1616   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
```

```
1617 Epoch 790/10000
1618   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1619 Epoch 791/10000
1620   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1621 Epoch 792/10000
1622   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1623 Epoch 793/10000
1624   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1625 Epoch 794/10000
1626   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1627 Epoch 795/10000
1628   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1629 Epoch 796/10000
1630   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1631 Epoch 797/10000
1632   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
```

```
1633 Epoch 798/10000
1634   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1635 Epoch 799/10000
1636   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1637 Epoch 800/10000
1638   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1639 Epoch 801/10000
1640   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1641 Epoch 802/10000
1642   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1643 Epoch 803/10000
1644   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1645 Epoch 804/10000
1646   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1647 Epoch 805/10000
1648   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
```



```
1649 Epoch 806/10000
1650   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1651 Epoch 807/10000
1652   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1653 Epoch 808/10000
1654   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1655 Epoch 809/10000
1656   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1657 Epoch 810/10000
1658   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1659 Epoch 811/10000
1660   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4818 - val_acc: 0.7619
1661 Epoch 812/10000
1662   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1663 Epoch 813/10000
1664   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4818 - val_acc: 0.7619
```

```
1665 Epoch 814/10000
1666   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1667 Epoch 815/10000
1668   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1669 Epoch 816/10000
1670   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1671 Epoch 817/10000
1672   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1673 Epoch 818/10000
1674   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1675 Epoch 819/10000
1676   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1677 Epoch 820/10000
1678   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1679 Epoch 821/10000
1680   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
```

```
1681 Epoch 822/10000
1682   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1683 Epoch 823/10000
1684   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1685 Epoch 824/10000
1686   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1687 Epoch 825/10000
1688   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1689 Epoch 826/10000
1690   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1691 Epoch 827/10000
1692   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1693 Epoch 828/10000
1694   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1695 Epoch 829/10000
1696   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
```

```
1697 Epoch 830/10000
1698   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1699 Epoch 831/10000
1700   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1701 Epoch 832/10000
1702   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1703 Epoch 833/10000
1704   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1705 Epoch 834/10000
1706   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1707 Epoch 835/10000
1708   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1709 Epoch 836/10000
1710   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1711 Epoch 837/10000
1712   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
```

```
1713 Epoch 838/10000
1714   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1715 Epoch 839/10000
1716   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1717 Epoch 840/10000
1718   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1719 Epoch 841/10000
1720   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1721 Epoch 842/10000
1722   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1723 Epoch 843/10000
1724   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1725 Epoch 844/10000
1726   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1727 Epoch 845/10000
1728   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
```

```
1729 Epoch 846/10000
1730   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1731 Epoch 847/10000
1732   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1733 Epoch 848/10000
1734   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1735 Epoch 849/10000
1736   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1737 Epoch 850/10000
1738   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1739 Epoch 851/10000
1740   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1741 Epoch 852/10000
1742   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1743 Epoch 853/10000
1744   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
```

```
1745 Epoch 854/10000
1746   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1747 Epoch 855/10000
1748   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1749 Epoch 856/10000
1750   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1751 Epoch 857/10000
1752   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1753 Epoch 858/10000
1754   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1755 Epoch 859/10000
1756   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1757 Epoch 860/10000
1758   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1759 Epoch 861/10000
1760   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
```

```
1761 Epoch 862/10000
1762   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1763 Epoch 863/10000
1764   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1765 Epoch 864/10000
1766   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1767 Epoch 865/10000
1768   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1769 Epoch 866/10000
1770   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1771 Epoch 867/10000
1772   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1773 Epoch 868/10000
1774   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1775 Epoch 869/10000
1776   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
```



```
1777 Epoch 870/10000
1778   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1779 Epoch 871/10000
1780   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1781 Epoch 872/10000
1782   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1783 Epoch 873/10000
1784   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1785 Epoch 874/10000
1786   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1787 Epoch 875/10000
1788   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1789 Epoch 876/10000
1790   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1791 Epoch 877/10000
1792   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
```

```
1793 Epoch 878/10000
1794   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1795 Epoch 879/10000
1796   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1797 Epoch 880/10000
1798   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1799 Epoch 881/10000
1800   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1801 Epoch 882/10000
1802   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1803 Epoch 883/10000
1804   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1805 Epoch 884/10000
1806   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1807 Epoch 885/10000
1808   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
```

```
1809 Epoch 886/10000
1810   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1811 Epoch 887/10000
1812   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1813 Epoch 888/10000
1814   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1815 Epoch 889/10000
1816   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1817 Epoch 890/10000
1818   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1819 Epoch 891/10000
1820   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1821 Epoch 892/10000
1822   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1823 Epoch 893/10000
1824   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4818 - val_acc: 0.7619
```

```
1825 Epoch 894/10000
1826   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4818 - val_acc: 0.7619
1827 Epoch 895/10000
1828   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4818 - val_acc: 0.7619
1829 Epoch 896/10000
1830   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4818 - val_acc: 0.7619
1831 Epoch 897/10000
1832   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1833 Epoch 898/10000
1834   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1835 Epoch 899/10000
1836   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4818 - val_acc: 0.7619
1837 Epoch 900/10000
1838   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
1839 Epoch 901/10000
1840   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
```

```
1841 Epoch 902/10000
1842   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1843 Epoch 903/10000
1844   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1845 Epoch 904/10000
1846   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1847 Epoch 905/10000
1848   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1849 Epoch 906/10000
1850   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1851 Epoch 907/10000
1852   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1853 Epoch 908/10000
1854   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1855 Epoch 909/10000
1856   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
```

```
1857 Epoch 910/10000
1858   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1859 Epoch 911/10000
1860   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1861 Epoch 912/10000
1862   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1863 Epoch 913/10000
1864   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1865 Epoch 914/10000
1866   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1867 Epoch 915/10000
1868   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1869 Epoch 916/10000
1870   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1871 Epoch 917/10000
1872   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
```

```
1873 Epoch 918/10000
1874   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1875 Epoch 919/10000
1876   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1877 Epoch 920/10000
1878   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1879 Epoch 921/10000
1880   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1881 Epoch 922/10000
1882   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1883 Epoch 923/10000
1884   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1885 Epoch 924/10000
1886   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1887 Epoch 925/10000
1888   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
```

```
1889 Epoch 926/10000
1890   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1891 Epoch 927/10000
1892   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1893 Epoch 928/10000
1894   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1895 Epoch 929/10000
1896   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1897 Epoch 930/10000
1898   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1899 Epoch 931/10000
1900   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1901 Epoch 932/10000
1902   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1903 Epoch 933/10000
1904   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
```



```
1905 Epoch 934/10000
1906   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1907 Epoch 935/10000
1908   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1909 Epoch 936/10000
1910   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1911 Epoch 937/10000
1912   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1913 Epoch 938/10000
1914   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1915 Epoch 939/10000
1916   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1917 Epoch 940/10000
1918   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1919 Epoch 941/10000
1920   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
```

```
1921 Epoch 942/10000
1922   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1923 Epoch 943/10000
1924   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1925 Epoch 944/10000
1926   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1927 Epoch 945/10000
1928   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1929 Epoch 946/10000
1930   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1931 Epoch 947/10000
1932   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1933 Epoch 948/10000
1934   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1935 Epoch 949/10000
1936   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
```

```
1937 Epoch 950/10000
1938   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1939 Epoch 951/10000
1940   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1941 Epoch 952/10000
1942   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1943 Epoch 953/10000
1944   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1945 Epoch 954/10000
1946   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1947 Epoch 955/10000
1948   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1949 Epoch 956/10000
1950   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1951 Epoch 957/10000
1952   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
```

```
1953 Epoch 958/10000
1954   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1955 Epoch 959/10000
1956   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1957 Epoch 960/10000
1958   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1959 Epoch 961/10000
1960   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1961 Epoch 962/10000
1962   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1963 Epoch 963/10000
1964   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1965 Epoch 964/10000
1966   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1967 Epoch 965/10000
1968   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
```

```
1969 Epoch 966/10000
1970   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1971 Epoch 967/10000
1972   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1973 Epoch 968/10000
1974   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1975 Epoch 969/10000
1976   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1977 Epoch 970/10000
1978   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1979 Epoch 971/10000
1980   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1981 Epoch 972/10000
1982   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1983 Epoch 973/10000
1984   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
```

```
1985 Epoch 974/10000
1986   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1987 Epoch 975/10000
1988   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1989 Epoch 976/10000
1990   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1991 Epoch 977/10000
1992   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1993 Epoch 978/10000
1994   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1995 Epoch 979/10000
1996   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1997 Epoch 980/10000
1998   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
1999 Epoch 981/10000
2000   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
```

```
2001 Epoch 982/10000
2002   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
2003 Epoch 983/10000
2004   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
2005 Epoch 984/10000
2006   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
2007 Epoch 985/10000
2008   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
2009 Epoch 986/10000
2010   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
2011 Epoch 987/10000
2012   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
2013 Epoch 988/10000
2014   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
2015 Epoch 989/10000
2016   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
```

```
2017 Epoch 990/10000
2018   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
2019 Epoch 991/10000
2020   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
2021 Epoch 992/10000
2022   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
2023 Epoch 993/10000
2024   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
2025 Epoch 994/10000
2026   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
2027 Epoch 995/10000
2028   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
2029 Epoch 996/10000
2030   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
2031 Epoch 997/10000
2032   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
```



```
2033 Epoch 998/10000
2034   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
2035 Epoch 999/10000
2036   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
2037 Epoch 1000/10000
2038   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
2039 Epoch 1001/10000
2040   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
2041 Epoch 1002/10000
2042   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
2043 Epoch 1003/10000
2044   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
2045 Epoch 1004/10000
2046   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
2047 Epoch 1005/10000
2048   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
```

```
2049 Epoch 1006/10000
2050   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
2051 Epoch 1007/10000
2052   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
2053 Epoch 1008/10000
2054   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
2055 Epoch 1009/10000
2056   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
2057 Epoch 1010/10000
2058   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
2059 Epoch 1011/10000
2060   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
2061 Epoch 1012/10000
2062   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
2063 Epoch 1013/10000
2064   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
```

```
2065 Epoch 1014/10000
2066   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
2067 Epoch 1015/10000
2068   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
2069 Epoch 1016/10000
2070   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
2071 Epoch 1017/10000
2072   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
2073 Epoch 1018/10000
2074   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
2075 Epoch 1019/10000
2076   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
2077 Epoch 1020/10000
2078   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
2079 Epoch 1021/10000
2080   - 0s - loss: 0.4019 - acc: 0.8256 -
    val_loss: 0.4819 - val_acc: 0.7619
```

```
2081 Epoch 1022/10000
2082   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
2083 Epoch 1023/10000
2084   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
2085 Epoch 1024/10000
2086   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
2087 Epoch 1025/10000
2088   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
2089 Epoch 1026/10000
2090   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
2091 Epoch 1027/10000
2092   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
2093 Epoch 1028/10000
2094   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
2095 Epoch 1029/10000
2096   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
```

```
2097 Epoch 1030/10000
2098   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
2099 Epoch 1031/10000
2100   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
2101 Epoch 1032/10000
2102   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
2103 Epoch 1033/10000
2104   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
2105 Epoch 1034/10000
2106   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
2107 Epoch 1035/10000
2108   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
2109 Epoch 1036/10000
2110   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
2111 Epoch 1037/10000
2112   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
```

```

2113 Epoch 1038/10000
2114   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
2115 Epoch 1039/10000
2116   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
2117 Epoch 1040/10000
2118   - 0s - loss: 0.4019 - acc: 0.8256 -
      val_loss: 0.4819 - val_acc: 0.7619
2119 Epoch 01040: early stopping
2120 history.history.keys = ['acc', 'loss',
      'val_acc', 'val_loss', 'lr']
2121 history.history = {'acc': [0.6774193548387096, 0.7514934289127837,
      0.7885304659498208, 0.7968936680038343,
      0.76583034654672, 0.7945041816721681,
      0.77777777784899, 0.780167264109444,
      0.7861409797605791, 0.790919952281487, 0.7909199522102748, 0.7885304659498208, 0.7968936679326221,
      0.7968936678614098, 0.800477897323303, 0.800477897323303, 0.798088411062849, 0.806451612974438, 0.8004778973945152, 0.7980884109916367,

```

2121 0.8052568699154233, 0.8016726403823178
, 0.8076463560334528, 0.
8040621266427718, 0.8136200716845878,
0.8076463560334528, 0.8088410993061043
, 0.8136200717558001, 0.
799283154193076, 0.8064516130456503, 0.
.8040621266427718, 0.8088410991636799
, 0.8160095579450418, 0.
8076463560334528, 0.8052568698442111,
0.8052568698442111, 0.810035842365119
, 0.8028673836549692, 0.
8076463561046651, 0.8124253286967853,
0.808841099234892, 0.8076463561046651
, 0.8112305854241338, 0.
8160095580162541, 0.8064516129032258,
0.806451612974438, 0.8100358424363313
, 0.8112305855665582, 0.
8124253286967853, 0.8112305854241338,
0.817204301146481, 0.8076463561046651
, 0.812425328625573, 0.
8112305854953461, 0.8160095580162541,
0.8112305854241338, 0.8160095579450418
, 0.8160095580874663, 0.
8136200717558001, 0.8160095580162541,

2121 0.8112305854241338, 0.8136200717558001
, 0.8100358422939068, 0.
8124253285543608, 0.817204301146481, 0.
.8112305854953461, 0.8195937874069351
, 0.8183990442767081, 0.
8183990443479203, 0.8136200716845878,
0.8136200717558001, 0.8243727599278431
, 0.8207885304659498, 0.
8255675029868578, 0.814814814886027, 0.
.8148148148148148, 0.8172043010752689
, 0.8148148148148148, 0.
818399044241102, 0.8207885304659498, 0.
.8183990442767081, 0.820788530537162,
0.8100358422939068, 0.8195937874781473
, 0.8183990442054958, 0.
8160095579628449, 0.8267622461882971,
0.820788530537162, 0.8243727598566308
, 0.8195937873357229, 0.
8219832736673891, 0.8195937873535258,
0.820788530537162, 0.8172043010752689
, 0.827956989318524, 0.820788530537162
, 0.8243727598566308, 0.82556750305807
, 0.827956989318524, 0.
8219832736673891, 0.8172043012176933,

2121 0.8267622461170848, 0.8267622461882971
, 0.82556750305807, 0.8207885304659498
, 0.82556750305807, 0.8219832735961768
, 0.8279569892473119, 0.
8195937873357229, 0.8243727598566308,
0.8195937874069351, 0.8255675029868578
, 0.8255675031292823, 0.
8267622461882971, 0.8291517323775388,
0.8255675029868578, 0.8207885306083743
, 0.8255675029868578, 0.
8267622461882971, 0.8231780167264038,
0.8255675029868578, 0.8291517323775388
, 0.8267622461882971, 0.
8267622461170848, 0.8291517324487511,
0.8243727599278431, 0.82556750305807,
0.8255675029868578, 0.8267622461526909
, 0.8243727599990553, 0.
8351254481710984, 0.8219832737386013,
0.8255675029868578, 0.827956989318524
, 0.8231780167264038, 0.
831541218709205, 0.82556750305807, 0.
8219832736673891, 0.8219832735961768,
0.8279569892473119, 0.8291517325199633
, 0.8267622461882971, 0.

2121 8267622462595093, 0.82556750305807, 0.
8267622461170848, 0.825567503022464, 0.
.82556750305807, 0.825567503022464, 0.
8267622462595093, 0.82556750305807, 0.
827956989318524, 0.82556750305807, 0.
8279569892473119, 0.82556750305807, 0.
8267622461170848, 0.8291517323775388,
0.8279569892473119, 0.8291517325199633
, 0.82556750305807, 0.8267622461882971
, 0.8267622461170848, 0.
8267622461170848, 0.8267622461526909,
0.8267622462595093, 0.8267622461170848
, 0.827956989318524, 0.827956989318524
, 0.8291517324487511, 0.
8291517323775388, 0.8279569892473119,
0.8267622461170848, 0.827956989318524
, 0.8279569892473119, 0.
8279569893897363, 0.8255675031292823,
0.8291517324487511, 0.8291517325199633
, 0.82556750305807, 0.8267622461170848
, 0.8279569893897363, 0.
8291517324487511, 0.8255675029868578,
0.8267622461882971, 0.8279569893897363
, 0.8255675031292823, 0.

2121 8267622461526909, 0.82556750305807, 0.
8255675029868578, 0.8243727599278431,
0.8243727598566308, 0.8267622461882971
, 0.8267622462595093, 0.
8267622461882971, 0.82556750305807, 0.
8255675031292823, 0.8267622461882971,
0.82556750305807, 0.8279569892473119,
0.8267622461882971, 0.8243727598566308
, 0.8267622462595093, 0.
8243727599278431, 0.827956989318524, 0.
.82556750305807, 0.8255675029868578, 0.
.8267622461170848, 0.82556750305807, 0.
.8279569892473119, 0.8267622461170848
, 0.82556750305807, 0.8255675031292823
, 0.8255675030046609, 0.
8267622462595093, 0.82556750305807, 0.
8267622461882971, 0.82556750305807, 0.
8267622461170848, 0.8255675031292823,
0.8255675031292823, 0.8279569892473119
, 0.8255675029868578, 0.
8267622461882971, 0.825567503022464, 0.
.8267622462595093, 0.8279569893897363
, 0.8267622462595093, 0.82556750305807
, 0.8267622461170848, 0.

2121 8267622461882971, 0.8255675029868578,
0.8291517323775388, 0.827956989318524
, 0.8267622461882971, 0.82556750305807
, 0.8267622461170848, 0.
8267622461170848, 0.8291517323775388,
0.827956989318524, 0.827956989318524,
0.82556750305807, 0.8267622461882971,
0.8267622461882971, 0.8267622461170848
, 0.8267622461882971, 0.
8267622462595093, 0.8267622461882971,
0.8267622461170848, 0.8267622461170848
, 0.8267622461170848, 0.82556750305807
, 0.8255675029868578, 0.
8255675029868578, 0.82556750305807, 0.
8267622461170848, 0.8267622462595093,
0.8267622461882971, 0.82556750305807,
0.8267622461882971, 0.8267622461882971
, 0.8267622461882971, 0.
8255675031292823, 0.8255675029868578,
0.8267622461170848, 0.82556750305807,
0.8255675029868578, 0.82556750305807,
0.8255675031292823, 0.8267622461882971
, 0.8255675031292823, 0.
8267622461170848, 0.8267622461170848,

2121 0.8267622461170848, 0.8255675029868578
, 0.8255675029868578, 0.
8255675029868578, 0.8255675029868578,
0.8255675029868578, 0.8267622461882971
, 0.8255675029868578, 0.82556750305807
, 0.8267622461170848, 0.
8267622461882971, 0.8267622461882971,
0.8267622461882971, 0.8267622461882971
, 0.82556750305807, 0.82556750305807,
0.8267622461882971, 0.82556750305807,
0.8255675029868578, 0.825567503022464
, 0.82556750305807, 0.82556750305807,
0.8255675029868578, 0.82556750305807,
0.8267622461170848, 0.8267622461170848
, 0.8267622461170848, 0.
8267622461170848, 0.825567503022464, 0.
.82556750305807, 0.8267622462595093, 0.
.8255675029868578, 0.8267622461170848
, 0.8255675029868578, 0.82556750305807
, 0.8267622461170848, 0.
8267622461170848, 0.8255675029868578,
0.8267622461170848, 0.8267622461170848
, 0.8267622461882971, 0.
8267622462595093, 0.8267622461882971,

2121 0.8255675031292823, 0.8267622461170848
, 0.8267622461882971, 0.
8267622462595093, 0.8267622461882971,
0.82556750305807, 0.82556750305807, 0.
82556750305807, 0.8255675029868578, 0.
82556750305807, 0.82556750305807, 0.
8255675029868578, 0.8255675029868578,
0.8255675031292823, 0.82556750305807,
0.8267622462595093, 0.8267622461526909
, 0.8255675029868578, 0.82556750305807
, 0.8255675031292823, 0.
8255675029868578, 0.8255675031292823,
0.82556750305807, 0.82556750305807, 0.
8255675029868578, 0.8255675029868578,
0.8255675029868578, 0.8255675031292823
, 0.8255675029868578, 0.
8255675029868578, 0.82556750305807, 0.
82556750305807, 0.8255675029868578, 0.
82556750305807, 0.8255675029868578, 0.
82556750305807, 0.82556750305807, 0.
8255675029868578, 0.8255675029868578,
0.82556750305807, 0.825567503022464, 0.
.8255675031292823, 0.8255675029868578
, 0.8255675029868578, 0.82556750305807

2121 , 0.8255675031292823, 0.
8255675031292823, 0.8255675029868578,
0.8255675031292823, 0.825567503022464
, 0.82556750305807, 0.8255675029868578
, 0.82556750305807, 0.825567503022464
, 0.8255675029868578, 0.82556750305807
, 0.8255675031292823, 0.
8255675030046609, 0.8255675031292823,
0.8255675029868578, 0.8255675029868578
, 0.8255675029868578, 0.82556750305807
, 0.82556750305807, 0.82556750305807,
0.82556750305807, 0.8255675031292823,
0.825567503022464, 0.8255675029868578
, 0.82556750305807, 0.8255675029868578
, 0.8255675029868578, 0.82556750305807
, 0.82556750305807, 0.8255675031292823
, 0.8255675029868578, 0.
8255675031292823, 0.82556750305807, 0.
82556750305807, 0.82556750305807, 0.
8255675029868578, 0.8255675031292823,
0.8255675029868578, 0.82556750305807,
0.82556750305807, 0.82556750305807, 0.
8255675031292823, 0.8255675031292823,
0.82556750305807, 0.8255675029868578,

2121 0. 8255675031292823, 0. 8255675029868578
, 0. 82556750305807, 0. 8255675029868578
, 0. 82556750305807, 0. 8255675029868578
, 0. 8255675029868578, 0. 82556750305807
, 0. 82556750305807, 0. 82556750305807,
0. 8255675031292823, 0. 82556750305807,
0. 8255675029868578, 0. 8255675029868578
, 0. 8255675029868578, 0.
8255675029868578, 0. 82556750305807, 0.
82556750305807, 0. 82556750305807, 0.
82556750305807, 0. 8255675031292823, 0.
8255675029868578, 0. 82556750305807, 0.
8255675029868578, 0. 8255675029868578,
0. 8255675029868578, 0. 82556750305807,
0. 8255675031292823, 0. 8255675031292823
, 0. 82556750305807, 0. 8255675031292823
, 0. 8255675031292823, 0.
8255675029868578, 0. 82556750305807, 0.
82556750305807, 0. 8255675029868578, 0.
8255675029868578, 0. 8255675031292823,
0. 8255675029868578, 0. 8255675029868578
, 0. 8255675029868578, 0.
8255675029868578, 0. 82556750305807, 0.
82556750305807, 0. 8255675029868578, 0.

2121 8255675029868578, 0.8255675031292823,
0.82556750305807, 0.8255675031292823,
0.82556750305807, 0.8255675031292823,
0.82556750305807, 0.8255675029868578,
0.8255675029868578, 0.82556750305807,
0.82556750305807, 0.8255675029868578,
0.8255675031292823, 0.82556750305807,
0.8255675029868578, 0.82556750305807,
0.8255675029868578, 0.825567503022464
, 0.8255675029868578, 0.82556750305807
, 0.82556750305807, 0.82556750305807,
0.82556750305807, 0.82556750305807, 0.
8255675029868578, 0.8255675029868578,
0.8255675029868578, 0.8255675029868578
, 0.82556750305807, 0.8255675029868578
, 0.82556750305807, 0.8255675029868578
, 0.82556750305807, 0.8255675031292823
, 0.82556750305807, 0.82556750305807,
0.825567503022464, 0.8255675031292823
, 0.82556750305807, 0.8255675029868578
, 0.8255675029868578, 0.82556750305807
, 0.8255675031292823, 0.
8255675029868578, 0.8255675029868578,
0.8255675029868578, 0.8255675029868578

2121 , 0.8255675031292823, 0.
8255675031292823, 0.8255675031292823,
0.8255675029868578, 0.8255675029868578
, 0.8255675029868578, 0.82556750305807
, 0.8255675029868578, 0.
8255675029868578, 0.8255675031292823,
0.82556750305807, 0.8255675029868578,
0.8255675029868578, 0.8255675029868578
, 0.8255675029868578, 0.
8255675029868578, 0.82556750305807, 0.
82556750305807, 0.8255675029868578, 0.
82556750305807, 0.825567503022464, 0.
82556750305807, 0.82556750305807, 0.
8255675029868578, 0.8255675029868578,
0.8255675029868578, 0.8255675029868578
, 0.82556750305807, 0.8255675029868578
, 0.82556750305807, 0.8255675029868578
, 0.82556750305807, 0.82556750305807,
0.8267622461882971, 0.82556750305807,
0.8255675029868578, 0.8255675029868578
, 0.82556750305807, 0.8255675029868578
, 0.8267622461170848, 0.
8267622461882971, 0.82556750305807, 0.
8267622461882971, 0.8255675029868578,

2121 0.82556750305807, 0.8255675031292823,
0.82556750305807, 0.82556750305807, 0.
82556750305807, 0.8255675029868578, 0.
8255675031292823, 0.8255675029868578,
0.8255675029868578, 0.82556750305807,
0.82556750305807, 0.82556750305807, 0.
82556750305807, 0.82556750305807, 0.
8255675031292823, 0.8255675031292823,
0.82556750305807, 0.8255675029868578,
0.8255675029868578, 0.8255675031292823
, 0.8255675031292823, 0.
8255675029868578, 0.8255675031292823,
0.8255675029868578, 0.82556750305807,
0.825567503022464, 0.82556750305807, 0.
.8255675029868578, 0.8255675031292823
, 0.8255675029868578, 0.82556750305807
, 0.82556750305807, 0.8255675031292823
, 0.82556750305807, 0.82556750305807,
0.82556750305807, 0.8255675029868578,
0.82556750305807, 0.8255675029868578,
0.82556750305807, 0.8255675031292823,
0.8255675031292823, 0.8255675029868578
, 0.8255675031292823, 0.82556750305807
, 0.8255675029868578, 0.

2121 8255675031292823, 0. 8255675031292823,
0. 82556750305807, 0. 82556750305807, 0.
8255675031292823, 0. 82556750305807, 0.
82556750305807, 0. 8255675029868578, 0.
8255675029868578, 0. 8255675029868578,
0. 82556750305807, 0. 8255675031292823,
0. 8255675031292823, 0. 8255675031292823
, 0. 8255675031292823, 0. [REDACTED]
8255675029868578, 0. 8255675029868578,
0. 8255675029868578, 0. 82556750305807,
0. 8255675029868578, 0. 8255675031292823
, 0. 8255675029868578, 0. 82556750305807
, 0. 82556750305807, 0. 8255675029868578
, 0. 82556750305807, 0. 8255675029868578
, 0. 8255675031292823, 0. [REDACTED]
8255675029868578, 0. 8255675030046609,
0. 82556750305807, 0. 82556750305807, 0.
8255675029868578, 0. 8255675031292823,
0. 825567503022464, 0. 82556750305807, 0.
8255675029868578, 0. 8255675029868578
, 0. 8255675029868578, 0. 82556750305807
, 0. 82556750305807, 0. 8255675029868578
, 0. 82556750305807, 0. 82556750305807,
0. 8255675029868578, 0. 82556750305807,

2121 0.8255675031292823, 0.82556750305807,
0.82556750305807, 0.8255675029868578,
0.8255675029868578, 0.8255675031292823
, 0.8255675029868578, 0.82556750305807
, 0.82556750305807, 0.8255675029868578
, 0.82556750305807, 0.8255675029868578
, 0.8255675029868578, 0.
8255675029868578, 0.8255675031292823,
0.8255675029868578, 0.8255675031292823
, 0.8255675029868578, 0.
8255675029868578, 0.8255675031292823,
0.82556750305807, 0.8255675031292823,
0.82556750305807, 0.82556750305807, 0.
82556750305807, 0.8255675031292823, 0.
8255675029868578, 0.82556750305807, 0.
82556750305807, 0.8255675029868578, 0.
8255675029868578, 0.825567503022464, 0.
.8255675031292823, 0.8255675029868578
, 0.82556750305807, 0.8255675031292823
, 0.82556750305807, 0.8255675029868578
, 0.82556750305807, 0.82556750305807,
0.8255675029868578, 0.8255675031292823
, 0.8255675031292823, 0.82556750305807
, 0.82556750305807, 0.82556750305807,

2121 0. 8255675029868578, 0. 8255675029868578
, 0. 82556750305807, 0. 82556750305807,
0. 8255675029868578, 0. 82556750305807,
0. 825567503022464, 0. 8255675029868578
, 0. 8255675031292823, 0. 82556750305807
, 0. 8255675031292823, 0.
8255675029868578, 0. 82556750305807, 0.
82556750305807, 0. 8255675029868578, 0.
8255675031292823, 0. 8255675029868578,
0. 8255675031292823, 0. 8255675031292823
, 0. 8255675029868578, 0. 82556750305807
, 0. 82556750305807, 0. 82556750305807,
0. 8255675029868578, 0. 82556750305807,
0. 8255675029868578, 0. 8255675029868578
, 0. 8255675029868578, 0.
8255675029868578, 0. 825567503022464, 0
. 8255675031292823, 0. 8255675031292823
, 0. 8255675031292823, 0.
8255675029868578, 0. 8255675029868578,
0. 82556750305807, 0. 82556750305807, 0.
8255675029868578, 0. 8255675031292823,
0. 825567503022464, 0. 82556750305807, 0
. 8255675029868578, 0. 82556750305807, 0
. 8255675031292823, 0. 8255675029868578

2121 , 0.8255675029868578, 0.82556750305807
, 0.82556750305807, 0.8255675031292823
, 0.82556750305807, 0.8255675031292823
, 0.82556750305807, 0.8255675029868578
, 0.8255675029868578, 0.
8255675031292823, 0.8255675029868578,
0.8255675029868578, 0.8255675029868578
, 0.82556750305807, 0.82556750305807,
0.82556750305807, 0.8255675031292823,
0.82556750305807, 0.8255675029868578,
0.8255675029868578, 0.8255675029868578
, 0.82556750305807, 0.82556750305807,
0.82556750305807, 0.8255675029868578,
0.8255675029868578, 0.8255675029868578
, 0.8255675031292823, 0.
8255675029868578, 0.8255675031292823,
0.8255675031292823, 0.8255675029868578
, 0.82556750305807, 0.82556750305807,
0.82556750305807, 0.82556750305807, 0.
8255675029868578, 0.82556750305807, 0.
82556750305807, 0.8255675029868578, 0.
8255675029868578, 0.82556750305807, 0.
8255675031292823, 0.8255675029868578,
0.8255675029868578, 0.8255675029868578

2121 , 0.8255675029868578, 0.82556750305807
, 0.8255675029868578, 0.
825567503022464, 0.8255675029868578, 0.
.82556750305807, 0.82556750305807, 0.
8255675029868578, 0.8255675029868578,
0.82556750305807, 0.8255675031292823,
0.8255675029868578, 0.8255675031292823
, 0.82556750305807, 0.82556750305807,
0.82556750305807, 0.82556750305807, 0.
8255675031292823, 0.8255675031292823,
0.8255675031292823, 0.8255675031292823
, 0.82556750305807, 0.8255675029868578
, 0.82556750305807, 0.8255675029868578
, 0.8255675029868578, 0.
8255675031292823, 0.82556750305807, 0.
82556750305807, 0.82556750305807, 0.
8255675029868578, 0.82556750305807, 0.
82556750305807, 0.82556750305807, 0.
8255675031292823, 0.8255675029868578,
0.8255675031292823, 0.8255675031292823
, 0.82556750305807, 0.8255675029868578
, 0.8255675031292823, 0.82556750305807
, 0.8255675029868578, 0.
8255675029868578, 0.8255675029868578,

2121 0.82556750305807, 0.82556750305807, 0.
82556750305807, 0.8255675029868578, 0.
82556750305807, 0.82556750305807, 0.
8255675029868578, 0.82556750305807, 0.
82556750305807, 0.8255675031292823, 0.
82556750305807, 0.8255675029868578, 0.
82556750305807, 0.82556750305807, 0.
8255675029868578, 0.8255675030046609,
0.82556750305807, 0.82556750305807, 0.
82556750305807, 0.8255675029868578, 0.
8255675029868578, 0.8255675029868578,
0.82556750305807, 0.8255675029868578,
0.8255675029868578, 0.8255675031292823
, 0.8255675031292823, 0.
8255675029868578, 0.82556750305807, 0.
8255675029868578, 0.8255675029868578,
0.8255675029868578, 0.8255675031292823
, 0.82556750305807, 0.8255675031292823
, 0.8255675029868578, 0.
8255675029868578, 0.8255675031292823,
0.82556750305807, 0.8255675029868578,
0.82556750305807, 0.8255675031292823,
0.8255675031292823, 0.8255675031292823
, 0.82556750305807, 0.82556750305807,

2121 0. 8255675029868578, 0. 8255675029868578
, 0. 82556750305807, 0. 8255675031292823
, 0. 8255675029868578, 0.
8255675031292823, 0. 8255675031292823,
0. 82556750305807, 0. 8255675031292823,
0. 82556750305807, 0. 8255675029868578,
0. 8255675029868578, 0. 825567503022464
, 0. 8255675029868578, 0.
8255675029868578, 0. 8255675029868578,
0. 82556750305807, 0. 8255675031292823,
0. 8255675029868578, 0. 8255675029868578
, 0. 8255675031292823, 0.
8255675029868578, 0. 82556750305807, 0.
8255675029868578, 0. 82556750305807, 0.
82556750305807, 0. 82556750305807, 0.
82556750305807, 0. 82556750305807, 0.
8255675029868578, 0. 8255675029868578,
0. 8255675031292823, 0. 8255675031292823
, 0. 82556750305807, 0. 8255675029868578
, 0. 82556750305807, 0. 8255675029868578
, 0. 8255675029868578, 0. 82556750305807
, 0. 82556750305807, 0. 82556750305807,
0. 82556750305807, 0. 8255675029868578,
0. 8255675029868578, 0. 8255675031292823

2121 , 0.82556750305807, 0.8255675029868578
, 0.82556750305807, 0.8255675029868578
, 0.8255675029868578, 0.
8255675029868578, 0.8255675029868578,
0.82556750305807, 0.82556750305807, 0.
8255675029868578, 0.825567503022464, 0.
.82556750305807, 0.8255675029868578, 0.
.8255675029868578, 0.82556750305807, 0.
.8255675029868578, 0.8255675029868578
, 0.82556750305807, 0.82556750305807,
0.8255675031292823, 0.8255675029868578
, 0.82556750305807, 0.8255675031292823
, 0.8255675031292823, 0.
8255675031292823, 0.8255675031292823,
0.82556750305807, 0.8255675029868578,
0.8255675029868578, 0.8255675029868578
, 0.82556750305807, 0.8255675029868578
, 0.82556750305807, 0.8255675029868578
, 0.82556750305807, 0.8255675031292823
, 0.82556750305807, 0.82556750305807,
0.82556750305807, 0.82556750305807, 0.
82556750305807, 0.82556750305807, 0.
82556750305807, 0.82556750305807, 0.
8255675031292823, 0.8255675031292823,

2121 0.82556750305807, 0.82556750305807, 0.
82556750305807, 0.82556750305807, 0.
82556750305807, 0.8255675029868578, 0.
82556750305807, 0.82556750305807, 0.
82556750305807, 0.8255675029868578, 0.
8255675029868578, 0.8255675029868578,
0.8255675029868578, 0.82556750305807,
0.82556750305807, 0.82556750305807, 0.
8255675031292823, 0.8255675029868578,
0.82556750305807, 0.8255675029868578,
0.82556750305807, 0.8255675029868578,
0.82556750305807, 0.82556750305807, 0.
825567503022464, 0.8255675029868578, 0.
.8255675029868578, 0.8255675030046609
, 0.8255675029868578, 0.
8255675029868578, 0.82556750305807, 0.
8255675029868578, 0.8255675031292823,
0.82556750305807, 0.8255675031292823,
0.8255675029868578, 0.82556750305807,
0.8255675031292823, 0.8255675029868578
, 0.82556750305807, 0.82556750305807,
0.82556750305807, 0.8255675029868578,
0.8255675031292823, 0.8255675029868578
, 0.82556750305807, 0.8255675031292823

```
2121 , 0.82556750305807, 0.8255675029868578
, 0.8255675029868578, 0.82556750305807
, 0.8255675029868578, 0.82556750305807
, 0.82556750305807, 0.8255675031292823
, 0.82556750305807, 0.8255675029868578
, 0.82556750305807, 0.82556750305807,
0.82556750305807, 0.8255675029868578,
0.8255675029868578, 0.825567503022464
, 0.8255675029868578, 0.
8255675029868578, 0.8255675029868578,
0.82556750305807, 0.8255675029868578,
0.8255675029868578, 0.82556750305807,
0.8255675031292823, 0.8255675029868578
, 0.8255675031292823, 0.82556750305807
, 0.82556750305807, 0.82556750305807,
0.82556750305807, 0.82556750305807, 0.
82556750305807, 0.82556750305807, 0.
82556750305807, 0.82556750305807, 0.
8255675029868578, 0.8255675029868578,
0.8255675029868578, 0.8255675029868578
, 0.82556750305807, 0.82556750305807,
0.82556750305807], 'loss': [0.
6526729555682612, 0.5825840574794915,
0.529100583659278, 0.4942000097413787
```

2121 , 0.4804754502528315, 0.
47090342537619023, 0.4660775064353874
, 0.4614225766279934, 0.
45909528069313854, 0.4548749073431911
, 0.45343147401598904, 0.
45296589601139586, 0.4491080877459035
, 0.4476972199184208, 0.
4455490955813669, 0.44556850202052256
, 0.4423832868091237, 0.
4418093528656407, 0.4410119679096637,
0.44009669023602666, 0.
4377678925062451, 0.4374755982536569,
0.43703017201332495, 0.
43751629622677607, 0.4357147629827866
, 0.43353767821224787, 0.
4329035490786873, 0.4332033091690948,
0.43208006070648614, 0.
43196196496273026, 0.43211191778684316
, 0.43260727009180766, 0.
43118838494111705, 0.43375759992833063
, 0.4298908596896214, 0.
42868708969586783, 0.4285370652322416
, 0.43141426849251296, 0.
4302920065330633, 0.42848762364228, 0.

2121 4271779723349723, 0.43014495678272724
, 0.4267402995586965, 0.
42907653369783927, 0.427189166418398,
0.4301383769497934, 0.4254405897293182
, 0.42815458283202196, 0.
4274479999621994, 0.42365466508671656
, 0.4267850318832352, 0.
4268466046918962, 0.4266445841128396,
0.4272551633408705, 0.4278111952749774
, 0.42607092849349465, 0.
42732308966996707, 0.4259109688631238
, 0.42567549953893663, 0.
4245947871441767, 0.42209076087392217
, 0.4239728076198765, 0.
42445009540913353, 0.4242496787967648
, 0.42421333536309863, 0.
4249510479870663, 0.42297253187127154
, 0.42272634944892984, 0.
4229347206643263, 0.4246241835924032,
0.42308735583987855, 0.
42237821467033854, 0.42048442723360824
, 0.4210241618193463, 0.
4223143994238499, 0.421292639334142, 0
.4223261360911343, 0.4226760436984373

2121 , 0.4203680557162104, 0.
4222975993882798, 0.4209449526941762,
0.4207378856953469, 0.4225352812945629
, 0.4216913198484742, 0.42163290052253
, 0.4199840837339631, 0.
4185205989983489, 0.4200254545915369,
0.41994985302502963, 0.
41844083035861007, 0.4199676827717853
, 0.4189201240186338, 0.
4200488863381576, 0.4184003298926382,
0.41813702017887805, 0.
4175039664391548, 0.4169078898686235,
0.41805028352828577, 0.
4165437650936906, 0.41357164286085923
, 0.4175919123447924, 0.
41568112485511327, 0.41656987249780014
, 0.4152940046687565, 0.
41795128053376895, 0.4151735874059807
, 0.41550037054747807, 0.
41665716713189793, 0.4148696758556252
, 0.4167716632037465, 0.
41524353726647945, 0.4161003014448865
, 0.41553720336945965, 0.
415496615988949, 0.41424793969915474,

2121 0.408080090892144, 0.41647286640130776
, 0.4158205108866185, 0.
4151367771582791, 0.4133560598395062,
0.4134313270645472, 0.
41418142048831197, 0.4135903436223239
, 0.4127357814687982, 0.
41285182808035165, 0.41374980726834554
, 0.41330205475557663, 0.
41055955505499275, 0.41211355159786867
, 0.4113795033777344, 0.
4110761329691897, 0.41351148069545784
, 0.4098039299890559, 0.
4115044288025677, 0.40903078769127815
, 0.411549988684546, 0.
41104454126124457, 0.4114772948562173
, 0.4107318877497312, 0.
4086193543466046, 0.40671005912721514
, 0.40586939913397624, 0.
4051423178921179, 0.4050207748350419,
0.4049153898351936, 0.4047286691346619
, 0.40449019515243767, 0.
4045359780711512, 0.4044541713727133,
0.40442844733969713, 0.
40437640304918643, 0.4044592729463657

2121 , 0.4044835249155653, 0.
40431991527513506, 0.4045056307258857
, 0.40411764611195206, 0.
4043272200664739, 0.40433440890648314
, 0.4042970242608548, 0.
40438051019731813, 0.4040526354611988
, 0.4042005481792607, 0.
4042629049812736, 0.4039701686965095,
0.4043453117496509, 0.
40402381202226045, 0.404094794353419,
0.4039888971951415, 0.4041343124109357
, 0.40403623562061375, 0.
40407128591121594, 0.40397612282309764
, 0.4038992967799288, 0.
4038708091779137, 0.4041040157331788,
0.4039039441619153, 0.4038125251641268
, 0.4040615268078329, 0.
403852185592714, 0.40383051166682543,
0.40372199354205934, 0.
4037896048460098, 0.40388577215133176
, 0.4036346285146624, 0.
4036992728496538, 0.403894558744761, 0.
.403725600726858, 0.40364022040238945
, 0.40380345719333477, 0.

2121 403678853736841, 0.40364233086613344,
0.40377647247223303, 0.
40355634943914814, 0.40351107111256324
, 0.4037067148135697, 0.
40346686527791703, 0.4036666109997739
, 0.4035300483911553, 0.
4034599715236267, 0.4035227055190712,
0.40373537766890716, 0.
40351265501520256, 0.40332029170602596
, 0.40348546397443885, 0.
4034503748019536, 0.40346823778702223
, 0.40348455324110305, 0.
403298429156717, 0.4035392199045441, 0.
.40331345333705526, 0.40352145474729,
0.40315790971120197, 0.
4033382602276341, 0.4033061139543709,
0.4031262831448654, 0.40338612136875,
0.40320306834781466, 0.
4032507597189508, 0.4031521373894622,
0.40317660961811974, 0.
4031961331480008, 0.4029730316985893,
0.40318718392361874, 0.
4031461048581979, 0.4030230687653007,
0.40296550207240606, 0.

2121 4029810435562578, 0.4030050410485182,
0.40313614536357184, 0. [REDACTED]
40287518106053805, 0.4030486897185997
, 0.4030701211134023, 0. [REDACTED]
4029247772522725, 0.4028150056852662,
0.4028949751435215, 0. [REDACTED]
40294194780512665, 0.40286979753982494
, 0.40294330578693494, 0. [REDACTED]
4028724580113036, 0.40289961743383285
, 0.40226417281436805, 0. [REDACTED]
40227293220472166, 0.4022546723360372
, 0.4022554593915153, 0. [REDACTED]
40222959877342307, 0.40224118593060987
, 0.4022278740129733, 0. [REDACTED]
4022355412746131, 0.4022474394690606,
0.40222346316244156, 0. [REDACTED]
40222266440145144, 0.4022261464574431
, 0.40223165499124336, 0. [REDACTED]
4022110497563401, 0.4022312177124844,
0.4022036558695876, 0.402217424328894
, 0.40220700761608186, 0. [REDACTED]
40220224793239306, 0.40220286833342683
, 0.4022055140817749, 0. [REDACTED]
40218961247762613, 0.4021987951713366

2121 , 0.4021960307833969, 0.
4022004382424457, 0.4021973928243029,
0.4021942683516722, 0.4021879311388396
, 0.40217860838845637, 0.
40217978413814287, 0.4021886565601242
, 0.40218510077275965, 0.
40217206200747224, 0.4021722510492645
, 0.4021857431249664, 0.
40218277467835334, 0.4021764802284708
, 0.4021814455553053, 0.
40217156691327605, 0.4021676675535587
, 0.4021774571713866, 0.
402162472656266, 0.40217386430024815,
0.4021601526683092, 0.4021654998173708
, 0.40215030878675456, 0.
4021582500196842, 0.40216019016155347
, 0.402158351781975, 0.
40213817941957336, 0.4021484960079763
, 0.4021480847928971, 0.
4021440647551378, 0.4021622823415549,
0.4021418067574359, 0.4021429518858592
, 0.4021404174778481, 0.
4021519613735992, 0.40212034523095425
, 0.4021491078635413, 0.

2121 4021304585173139, 0.4021290570604331,
0.4021340585808885, 0. [REDACTED]
40211758000627074, 0.40212434993137736
, 0.4021280386007815, 0. [REDACTED]
4021247962184847, 0.40211914673785865
, 0.402121055724373, 0. [REDACTED]
40211309549557833, 0.40213265616264254
, 0.4021308323815732, 0. [REDACTED]
4020941615674373, 0.4021086710613119,
0.40211212278979086, 0. [REDACTED]
40210690389397324, 0.4021058444694806
, 0.4021144067087481, 0. [REDACTED]
40207950475324156, 0.40210139021508867
, 0.4020975398048848, 0. [REDACTED]
4020985109261999, 0.4021016114537149,
0.40209975304569395, 0. [REDACTED]
4020847567093415, 0.40208987428794485
, 0.40208360470893706, 0. [REDACTED]
4020975209336412, 0.40207078258908635
, 0.4020827168347303, 0. [REDACTED]
40208316760820867, 0.4020868812196998
, 0.40206718238308725, 0. [REDACTED]
4020828319137099, 0.4020669190580272,
0.4020867647520815, 0. [REDACTED]

2121 40206136056884073, 0.4020570481336245
, 0.402086491475111, 0.
40206652302895823, 0.4020032026363245
, 0.4020026584323874, 0.
402002720671885, 0.40200289211535256,
0.40200273334766373, 0.
4020024832146712, 0.40200098019133335
, 0.4020021738687012, 0.
40200233486177245, 0.40200110408282763
, 0.4020013539665774, 0.
40200080620202827, 0.40200180764195453
, 0.40200096390153345, 0.
40199946851570834, 0.4019991600954974
, 0.40199908298154313, 0.
40200018149265393, 0.40199986214136424
, 0.40199841685334986, 0.
4020003138049956, 0.40199938373753674
, 0.4019991680712683, 0.
40199810700889416, 0.4019963807173812
, 0.4019966353189418, 0.
4019986663098261, 0.40199759841107696
, 0.4019966469977492, 0.
401997585664086, 0.401996669803469, 0.
4019961760177977, 0.401996061223667, 0.

2121 . 40199571600453116, 0. 4019951350550783
, 0. 4019969705683641, 0.
4019963872689073, 0. 40199714300880296
, 0. 40199425236156194, 0.
4019973279469899, 0. 40199442754367204
, 0. 40199452303928573, 0.
40199456918481713, 0. 40199499724159105
, 0. 401995945735217, 0.
40199551178563026, 0. 4019942084948222
, 0. 40199612004497715, 0.
4019929926170386, 0. 40199281063415954
, 0. 4019937186970363, 0.
40199295298742704, 0. 4019921235962723
, 0. 40199239970392936, 0.
4019921837172058, 0. 40199369925609485
, 0. 401992358026966, 0.
40199169605578716, 0. 4019943051298317
, 0. 40199195199257726, 0.
40199112080331345, 0. 4019917531680035
, 0. 401990883773373, 0.
4019928573493889, 0. 4019914666099503,
0. 40199056882834067, 0.
40199233824776637, 0. 40198973276993993
, 0. 40199073347994074, 0.

2121 4019894207179048, 0.4019909427193046,
0.40199142000153926, 0. [REDACTED]
4019890020967527, 0.40199004834698093
, 0.4019893971822595, 0. [REDACTED]
401989904391438, 0.401988002312511, 0.
40198864778025317, 0.4019891414947122
, 0.4019893633920517, 0. [REDACTED]
4019880470337976, 0.40198910542571276
, 0.4019902313624374, 0. [REDACTED]
40198822684470326, 0.40198832768123494
, 0.40198730386286224, 0. [REDACTED]
4019873093105986, 0.4019870988250206,
0.40198969887291375, 0. [REDACTED]
4019866533746571, 0.40198716154520087
, 0.4019883233016822, 0. [REDACTED]
4019881503983638, 0.4019863829817823,
0.4019851288630259, 0. [REDACTED]
40198650219107185, 0.40198651756401416
, 0.4019869814494462, 0. [REDACTED]
4019864414470313, 0.4019855899800821,
0.4019856027448761, 0. [REDACTED]
40198597945762504, 0.4019863269911587
, 0.4019853063951399, 0. [REDACTED]
4019867967337975, 0.4019865892658382,

2121 0.4019850790856702, 0.4019843302177557
, 0.4019854285419343, 0.
4019857129458173, 0.4019853750437391,
0.4019836674454392, 0.4019841584538331
, 0.401983318576676, 0.
4019839937399223, 0.4019830852853782,
0.4019827791795651, 0.
40198494039983307, 0.4019827792507773
, 0.40198240079332853, 0.
40198264640434384, 0.40198013741910243
, 0.4019824165312335, 0.
40198133275215486, 0.4019841405795609
, 0.40198045233743024, 0.
40198189938794754, 0.40198017726235064
, 0.4019824318418651, 0.
40198125185505035, 0.4019814935493925
, 0.4019813382354973, 0.
40198323967351424, 0.4019797924670125
, 0.4019803644259201, 0.
40197848303414874, 0.40198027181440216
, 0.4019797411051845, 0.
4019795842602262, 0.4019788152570508,
0.40197866026361073, 0.
4019787029731516, 0.4019793405185321,

2121 0.40197893247239763, 0.
4019770823784057, 0.40197865723709053
, 0.40197663374129444, 0.
40197621743454015, 0.4019774435668863
, 0.4019784093116774, 0.
4019778330266262, 0.4019758979764321,
0.40197682524881057, 0.
40197810665965794, 0.4019781805601599
, 0.40197713664213247, 0.
4019762622982513, 0.4019765047047158,
0.4019773413773221, 0.4019746585452001
, 0.4019766647898311, 0.
4019763264604794, 0.4019749652741203,
0.401975183379408, 0.4019757169193122
, 0.4019739785217185, 0.
40197516057368815, 0.401974459008504,
0.40197536424069424, 0.
40197507857279396, 0.40197542831390703
, 0.4019747333002489, 0.
4019736495923825, 0.4019730502701717,
0.4019729445199955, 0.4019736213211233
, 0.40197338140708716, 0.
4019729264320866, 0.4019726083982233,
0.4019725769936255, 0.

2121 40197128689488487, 0.40197193600335285
, 0.40197300862881447, 0.
4019721860028225, 0.40197319283707594
, 0.40197184429088945, 0.
4019716528011764, 0.40197158735712796
, 0.4019707916671657, 0.
4019710341804486, 0.4019715144357943,
0.40197065200216026, 0.
40196961755536076, 0.40197125814294304
, 0.40196978641738457, 0.
4019715730078616, 0.4019710124607155,
0.40196930382983803, 0.
40196917571901847, 0.4019684253556469
, 0.4019704207582143, 0.
4019707147935528, 0.40196741873503017
, 0.4019686133915663, 0.40196822500001
, 0.4019696134428539, 0.
40196797789353766, 0.4019683381918653
, 0.40196943140656577, 0.
40196641984094145, 0.40196683023707985
, 0.40196799680038736, 0.
40196702115709493, 0.4019666267124983
, 0.40196562910022987, 0.
4019662170284823, 0.4019661356684982,

2121 0.40196630465514344, 0.
40196410531852406, 0.40196615735262525
, 0.4019640106596542, 0.
40196563355099485, 0.40196496476124405
, 0.4019656127837254, 0.
4019651325016751, 0.4019652598647661,
0.40196464647813795, 0.
40196491322138544, 0.40196380036990986
, 0.4019643076324976, 0.
4019634629307112, 0.4019637475304279,
0.4019645027006256, 0.
40196296757837063, 0.4019635171588319
, 0.40196194137438795, 0.
40196345292539154, 0.40196289326839835
, 0.40196103651606196, 0.
4019627104665786, 0.4019625218965674,
0.40196134810521755, 0.
40196169067169746, 0.40196156936164684
, 0.4019604504749339, 0.
40196251441038067, 0.4019612874323892
, 0.4019616523239063, 0.
4019596209235516, 0.4019591654856715,
0.40195942594443884, 0.
40196023947306714, 0.4019592862616303

2121 , 0.4019614210265512, 0.
4019585437316051, 0.4019596568145205,
0.4019604292536864, 0.4019587901615612
, 0.40195820280300676, 0.
4019591295947026, 0.4019589240405722,
0.40195948891386196, 0.
4019571576921743, 0.40195745988131426
, 0.4019590551423058, 0.
4019576647322238, 0.40195784011906904
, 0.40195635457833606, 0.
40195874590315417, 0.4019573705455593
, 0.4019569951502368, 0.
4019577476143695, 0.401955967432994, 0
.4019583178819864, 0.40195610118738356
, 0.40195544902569075, 0.
4019551598327846, 0.4019550777606782,
0.4019561510181484, 0.
40195633853777907, 0.4019541348038039
, 0.40195560736610614, 0.
4019559538136531, 0.4019553351929253,
0.40195663997919046, 0.
4019540902249417, 0.4019547110532489,
0.4019542619087505, 0.
40195505094926987, 0.4019546080803501

2121 , 0.4019539990020624, 0.
40195351504368027, 0.4019535457361556
, 0.40195352433687753, 0.
40195298052460776, 0.40195262938595444
, 0.4019534718178506, 0.
40195236923874067, 0.40195250826283596
, 0.4019522059490746, 0.
40195319444617633, 0.4019518334022417
, 0.40195047356891517, 0.
40195159915848017, 0.4019516916631798
, 0.40195180575408956, 0.
40195233149625353, 0.4019507199988713
, 0.401951245082322, 0.
4019502005055814, 0.40194971464227175
, 0.40195021720485163, 0.
40195143201445166, 0.4019483048001498
, 0.40195012135317676, 0.
40194941877321816, 0.4019490804438665
, 0.4019488791268644, 0.
4019498706860924, 0.4019471125648298,
0.40195014221836306, 0.
4019491467780679, 0.40194773161283104
, 0.40194896693155613, 0.
4019467900445954, 0.401946634071987, 0

2121 . 40194740172212984, 0. 4019472643893252
, 0. 4019465766749217, 0.
40194596047541004, 0. 4019469257039124
, 0. 4019461562556605, 0.
4019469038773609, 0. 40194768115895907
, 0. 40194639211059896, 0.
4019460442744133, 0. 4019466778853176,
0. 4019456622207464, 0.
40194562864417527, 0. 40194539430249693
, 0. 4019464126197241, 0.
4019450068188967, 0. 4019450950508619,
0. 4019443026366627, 0.
40194531644971565, 0. 40194578737625797
, 0. 40194364552571926, 0.
40194259293760165, 0. 4019443501708328
, 0. 40194326689914134, 0.
4019435708240796, 0. 401944067600665, 0
. 4019431159202913, 0. 4019424803510504
, 0. 40194414260495664, 0.
4019438780336824, 0. 40194319820603447
, 0. 40194170835696097, 0.
40194398990811125, 0. 40194166304817336
, 0. 4019423398493011, 0.
40194274814467845, 0. 40194092254769703

2121 , 0.4019414266057339, 0.
40194172414827517, 0.4019411021805721
, 0.40194043805522306, 0.
40194024891551394, 0.40194064528284107
, 0.4019404528673689, 0.
4019400746591629, 0.40193895568343474
, 0.40193982459738264, 0.
40193991927405553, 0.4019396576402862
, 0.4019395648418362, 0.
40194049288864775, 0.40194044004916574
, 0.4019378610978987, 0.
40193859169987367, 0.40193805016639556
, 0.4019378688600328, 0.
40193720473468375, 0.4019382904364929
, 0.40193788189187274, 0.
4019369721199022, 0.4019373852221057,
0.4019378141690326, 0.
40193726725903034, 0.40193604532820637
, 0.4019371425485953, 0.
40193747432642085, 0.40193638679089655
, 0.40193653323886785, 0.
40193592049314986, 0.40193692305466894
, 0.4019357316382897, 0.
4019350945023795, 0.40193407588250035

2121 , 0.4019376341444902, 0.
401933846579088, 0.4019350464519207, 0.
.40193426520024006, 0.4019348668724548
, 0.40193375884560845, 0.
40193329397210653, 0.4019332031408946
, 0.4019349006982687, 0.
40193357413886127, 0.40193295395146417
, 0.4019353461664352, 0.
40193217106190204, 0.4019338556230424
, 0.4019328558031946, 0.
40193275931060957, 0.40193121234931967
, 0.4019324009706185, 0.
40193101877664866, 0.4019327269802527
, 0.40193241375321553, 0.
40193276180303794, 0.40193123113154794
, 0.40193225993477744, 0.
4019313807484639, 0.4019293228927621,
0.40193031210198626, 0.
40193168510957716, 0.4019303502361407
, 0.4019307951435108, 0.
4019314749978634, 0.4019316163541596,
0.40193007026521965, 0.
4019299606695825, 0.4019279498495651,
0.40192985726941016, 0.

2121 4019297011365742, 0.40192933133141256
, 0.40193007580197126, 0.
40192886877230843, 0.40192962020386364
, 0.4019285865760049, 0.
4019288661374556, 0.40192785221758426
, 0.4019277159173571, 0.
40192715070580926, 0.4019291223947008
, 0.4019273056636432, 0.
4019278982206912, 0.40192644798342614
, 0.4019259156719331, 0.
4019250145522497, 0.40192484170234044
, 0.4019284962966878, 0.
401926664059165, 0.40192589359613873,
0.4019260787479624, 0.
40192471428584026, 0.40192557481454694
, 0.4019268347371009, 0.
4019237019860474, 0.4019262227035053,
0.4019248247360243, 0.
40192552898947054, 0.40192403545516364
, 0.40192631908927196, 0.
4019232757629887, 0.4019247741397279,
0.40192354665434915, 0.
40192422487972174, 0.40192366735909574
, 0.4019226015967138, 0.

2121 4019219864119766, 0.4019249138937486,
0.40192272920904765, 0. [REDACTED]
40192261761946774, 0.40192324170573496
, 0.40192304029971754, 0. [REDACTED]
4019226519793735, 0.40192163633260536
, 0.40192285664335087, 0. [REDACTED]
4019221017580021, 0.40192301786786194
, 0.40192261558991893, 0. [REDACTED]
40192081865586404, 0.401922420860049,
0.4019205520016318, 0. [REDACTED]
40192169107701475, 0.40192020576772153
, 0.40192221046348625, 0. [REDACTED]
401920747087563, 0.4019196274175154, 0
.4019210324706142, 0.40191848446106543
, 0.4019202771757951, 0. [REDACTED]
4019189415012209, 0.40191948782372217
, 0.40191926622903473, 0. [REDACTED]
40192029898454357, 0.4019184785682526
, 0.4019191525742999, 0. [REDACTED]
40191904304987497, 0.40191819021209024
, 0.40191791177223235, 0. [REDACTED]
40191996272034686, 0.40191854035377217
, 0.4019179479836563, 0. [REDACTED]
4019174973169963, 0.40191703066318835

2121 , 0.40191818430147436, 0.
4019178054879643, 0.4019169114717019,
0.4019179609086778, 0.
40191649080319786, 0.40191837057489077
, 0.4019167998287128, 0.
4019161877951172, 0.4019165330320561,
0.4019166046715694, 0.4019151670388708
, 0.4019181679582653, 0.
4019152225488118, 0.4019163906253794,
0.4019152832928524, 0.4019149556097306
, 0.4019139366693964, 0.
401914833694376, 0.4019128314198274, 0.
.4019142138630401, 0.4019150666296126
, 0.40191233863112746, 0.
4019139195784588, 0.40191424929112946
, 0.4019141990508942, 0.
4019115753249313, 0.4019134132861379,
0.40191226912798134, 0.
40191396070352736, 0.40191297647916, 0.
.40191235928267705, 0.
40191319066777453, 0.4019118966167546
, 0.40191139198901976, 0.
401911320509734, 0.40191046477005044,
0.4019128190288977, 0.4019131432582258

2121 , 0.40191158449350717, 0.
40190996733475187, 0.4019117016376418
, 0.4019110495916689, 0.
4019096577039329, 0.40191076975427076
, 0.4019094393672054, 0.
40190968049184966, 0.40191070391855505
, 0.4019097286313238, 0.
4019102659632798, 0.401912040145024, 0.
.4019093771277078, 0.4019095078733802
, 0.4019081934378566, 0.
4019085429119238, 0.4019072662544934,
0.40190835334494124, 0.
40191035871722225, 0.4019069776668913
, 0.4019084031044938, 0.
4019073228682241, 0.4019067754953423,
0.4019073139666941, 0.
40190665108310847, 0.4019076228497846
, 0.40190673180663317, 0.
40190780704024304, 0.40190532127019185
, 0.4019067000459742, 0.
4019055328061504, 0.40190577012093975
, 0.40190742959756864, 0.
40190584037181437, 0.401905107277411,
0.4019052188669909, 0.4019055414228314

2121 , 0.4019065207691603, 0.
40190518813890935, 0.401905369427469,
0.4019054473870686, 0.4019044745210536
, 0.4019034509875299, 0.
40190454245753043, 0.4019049183157325
, 0.4019035087762625, 0.
4019019884305473, 0.4019028246758802,
0.40190449850177534, 0.
4019051869283013, 0.4019036411954226,
0.4019030415883628, 0.4019002037806038
, 0.40190498504160127, 0.
40190226088857706, 0.40190238365847863
, 0.40190230386516385, 0.
40190247943894125, 0.4019034628799739
, 0.40190116802993786, 0.
4019012967460614, 0.40190118430193467
, 0.4019005425372289, 0.
40190231429775697, 0.40190124201945504
, 0.4018998658785256, 0.
4018996553039323, 0.4019003043322865,
0.40189915172657803, 0.
40189931775791526, 0.4018990773899011
, 0.4019018458992492, 0.
4018989950952564, 0.4018992754222387,

2121 0.40189832755171984, 0.
4018991033556641, 0.4019008731044464,
0.40189811327409003, 0.
4018987229932878, 0.40189870999705407
, 0.4018983024850114, 0.
4018985587778627, 0.40189795991853144
, 0.40189622864216173, 0.
4018988125426795, 0.40189943183992355
, 0.4018971499505151, 0.
4018964714046875, 0.40189568596928776
, 0.40189783091755893, 0.
40189413013317254, 0.4018965021683751
, 0.40189644669404023, 0.
40189635718025474, 0.401896677430599,
0.4018955829607828, 0.4018971361353406
, 0.4018942371918736, 0.
4018945520211861, 0.40189406927341204
, 0.40189432542383885, 0.
4018951704994894, 0.401893737068313, 0.
.40189479827311164, 0.4018939151701249
, 0.4018936893917184, 0.
40189457299319076, 0.4018946782448813
, 0.4018936561712085, 0.
4018946078337791, 0.40189410445225854

2121 , 0.4018945445795071, 0.
40189276945420066, 0.40189278442657406
, 0.4018916839660282, 0.
4018929348980369, 0.4018929805183781,
0.4018929029593473, 0.4018934481958619
, 0.40189192606984075, 0.
40189188248794994, 0.4018919981366275
, 0.4018909014681334, 0.
4018927657333611, 0.4018904632280092,
0.40189030556411015, 0.
4018922973170503, 0.40189018599875936
, 0.40188929281924074, 0.
401890676766812, 0.4018905974274753, 0.
.401890177880564, 0.40189124946454663
, 0.40189005671293787, 0.
40188990898314625, 0.4018901306312429
, 0.40188765198241566, 0.
40188961786750965, 0.4018907521716725
, 0.40188975769274266, 0.
4018885108020286, 0.4018904858735015,
0.4018893866413668, 0.
40188880277221206, 0.4018875750731966
, 0.4018890132755931, 0.
4018883025774392, 0.40188752257197274

```
2121 , 0.4018879310453807, 0.
40188885165941474, 0.4018883450555403
, 0.4018878593524582, 0.
4018874546176929, 0.4018878729183899
], 'val_acc': [0.7142857159887042, 0.
7333333350363231, 0.752380953516279, 0.
.7333333333333333, 0.752380953516279,
0.7380952380952381, 0.7571428577105205
, 0.7619047619047619, 0.
7619047619047619, 0.7476190453483945,
0.771428572563898, 0.7523809529486156
, 0.7666666678019932, 0.76666666723433
, 0.7761904773258027, 0.
7809523792493911, 0.7714285691579182,
0.7761904739198231, 0.7761904773258027
, 0.7761904773258027, 0.
7809523792493911, 0.7761904773258027,
0.7714285714285715, 0.7904761910438538
, 0.7714285691579182, 0.
7761904767581395, 0.785714286281949, 0.
.7666666666666667, 0.7666666666666667
, 0.7714285697255816, 0.
7761904767581395, 0.7809523792493911,
0.76666666723433, 0.785714286281949, 0
```

2121 . 7761904767581395, 0. 7761904767581395
, 0. 7809523820877076, 0.
7666666666666667, 0. 7761904767581395,
0. 7999999982970102, 0. 7761904767581395
, 0. 7761904767581395, 0.
7761904744874863, 0. 7761904767581395,
0. 7904761887732006, 0. 7761904767581395
, 0. 7999999982970102, 0.
7761904744874863, 0. 76666666723433, 0.
7666666649636769, 0. 7714285691579182,
0. 7714285719962347, 0. 7857142840112958
, 0. 7952380935351054, 0.
7666666649636769, 0. 7666666649636769,
0. 7761904744874863, 0. 7666666649636769
, 0. 7761904767581395, 0.
7666666649636769, 0. 7761904767581395,
0. 7761904744874863, 0. 7904761887732006
, 0. 7809523792493911, 0.
7761904767581395, 0. 7809523792493911,
0. 7761904744874863, 0. 7761904767581395
, 0. 7714285719962347, 0. 76666666723433
, 0. 7761904744874863, 0.
7904761887732006, 0. 7761904767581395,
0. 7761904744874863, 0. 7714285697255816

2121 , 0.7809523792493911, 0.
7809523815200442, 0.7714285719962347,
0.757142854872204, 0.7761904767581395
, 0.7714285697255816, 0.
7857142840112958, 0.7809523792493911,
0.7523809523809524, 0.761904760201772
, 0.7761904744874863, 0.
757142854872204, 0.7666666649636769, 0
.7761904744874863, 0.7666666666666667
, 0.7714285697255816, 0.
7619047624724252, 0.7714285697255816,
0.7809523792493911, 0.7761904744874863
, 0.7761904744874863, 0.
7761904744874863, 0.7761904744874863,
0.7809523792493911, 0.7523809523809524
, 0.7666666643960135, 0.
7761904744874863, 0.7571428554398673,
0.7571428571428571, 0.7761904744874863
, 0.761904760201772, 0.
7761904744874863, 0.7714285697255816,
0.7761904744874863, 0.7761904744874863
, 0.7714285719962347, 0.
7761904744874863, 0.7809523792493911,
0.7714285697255816, 0.7714285697255816

2121 , 0.771428572563898, 0.
7809523792493911, 0.7714285719962347,
0.7714285697255816, 0.7714285697255816
, 0.7809523792493911, 0.
7714285697255816, 0.7714285697255816,
0.7714285697255816, 0.7666666666666667
, 0.7714285697255816, 0.
7714285697255816, 0.7761904744874863,
0.7714285719962347, 0.7761904744874863
, 0.7714285697255816, 0.
7714285697255816, 0.7761904744874863,
0.7761904767581395, 0.7714285697255816
, 0.7714285697255816, 0.
7809523792493911, 0.761904760201772, 0.
.7761904744874863, 0.7714285697255816
, 0.761904760201772, 0.761904760201772
, 0.761904760201772, 0.761904760201772
, 0.761904760201772, 0.761904760201772
, 0.761904760201772, 0.761904760201772
, 0.761904760201772, 0.761904760201772
, 0.761904760201772, 0.761904760201772
, 0.761904760201772, 0.761904760201772
, 0.7666666649636769, 0.

2121 761904760201772, 0.761904760201772, 0.
761904760201772, 0.7666666649636769, 0.
.7666666649636769, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.7666666649636769, 0.761904760201772
, 0.761904760201772, 0.761904760201772
, 0.761904760201772, 0.
7666666649636769, 0.761904760201772, 0.
.761904760201772, 0.761904760201772, 0.
.761904760201772, 0.761904760201772, 0.
.761904760201772, 0.761904760201772, 0.
.761904760201772, 0.761904760201772, 0.
.7761904744874863, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,

2121 0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.7666666649636769
, 0.761904760201772, 0.761904760201772
, 0.761904760201772, 0.761904760201772
, 0.761904760201772, 0.761904760201772
, 0.761904760201772, 0.761904760201772
, 0.761904760201772, 0.761904760201772
, 0.761904760201772, 0.761904760201772
, 0.761904760201772, 0.761904760201772
, 0.761904760201772, 0.
7714285697255816, 0.761904760201772, 0.
.761904760201772, 0.761904760201772, 0.
.7714285697255816, 0.7714285697255816
, 0.7666666649636769, 0.
7714285697255816, 0.761904760201772, 0.
.7666666649636769, 0.7714285697255816
, 0.761904760201772, 0.
7666666649636769, 0.761904760201772, 0.
.761904760201772, 0.761904760201772, 0.
.7666666649636769, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,

2121 0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,

[illegible]

[illegible]

2121 0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,

0.761904760201772, 0.761904760201772,

0.761904760201772, 0.761904760201772,

0.761904760201772, 0.761904760201772,

2121 0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,

[illegible]

0.761904760201772, 0.761904760201772,

2121 0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,

0.761904760201772, 0.761904760201772,

[illegible]

2121 0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,
0.761904760201772, 0.761904760201772,

[illegible]

0.761904760201772, 0.761904760201772,


```
2121 0.761904760201772, 0.761904760201772,  
0.761904760201772, 0.761904760201772,  
0.761904760201772, 0.761904760201772,  
0.761904760201772, 0.761904760201772,  
0.761904760201772, 0.761904760201772,  
0.761904760201772, 0.761904760201772,  
0.761904760201772, 0.761904760201772,  
0.761904760201772, 0.761904760201772,  
0.761904760201772, 0.761904760201772,  
0.761904760201772, 0.761904760201772,  
0.761904760201772], 'val_loss': [0.  
6224864619118827, 0.5747324540501549,  
0.5459371921562013, 0.5432539443174998  
, 0.5318589329719543, 0.  
5311441512334915, 0.524248621009645, 0.  
.5227608507587796, 0.5192442201432728  
, 0.5151267914544968, 0.  
5206185602006458, 0.510064306713286, 0.  
.5087717499051775, 0.5053304093224662  
, 0.5088683443410056, 0.  
5026347160339355, 0.49825783201626367  
, 0.49550130367279055, 0.  
4998524106684185, 0.5008567205497196,
```


2121 0.49656746132033214, 0.
5003114010606493, 0.49364190087431953
, 0.49557015072731747, 0.
49175334941773186, 0.4932877779006958
, 0.4904772718747457, 0.
49036364129611426, 0.49098535151708694
, 0.49331628282864887, 0.
48929169887588136, 0.4939901806059338
, 0.4904614596139817, 0.
49329428701173694, 0.49015698063941227
, 0.4896934478055863, 0.
5146134109724135, 0.4895841317517417,
0.4860224598929996, 0.5086931103751773
, 0.48710069684755236, 0.
4883228932108198, 0.49216928198224025
, 0.48689256140163967, 0.
5021410033816383, 0.4881741347767058,
0.5086359830129714, 0.
49512006101154143, 0.4861185644354139
, 0.4906516949335734, 0.
4882883846759796, 0.48692192151432945
, 0.49544770916303, 0.5067083960487729
, 0.4911023923328945, 0.
49009358911287215, 0.49247207357769923

2121 , 0.4921907246112823, 0.
48660065900711785, 0.49102879166603086
, 0.4853316920144217, 0.49848573860668
, 0.5001987269946507, 0.
49236893568720136, 0.48486330793017435
, 0.4880296094076974, 0.
49226267820312863, 0.4843783946264358
, 0.48432492159661794, 0.
485048778851827, 0.48818485793613253,
0.5024812190305619, 0.4860675124895005
, 0.4878087767532894, 0.
48656783756755645, 0.5011698674587977
, 0.4872479450135004, 0.
4869106420448848, 0.48854719201723734
, 0.48456715998195465, 0.
4865613395259494, 0.5076372328258696,
0.4991021982261113, 0.
49080418830826167, 0.48680303011621745
, 0.48662354378473194, 0.
4881126730214982, 0.4901256073088873,
0.4913983765102568, 0.4877449569248018
, 0.4927649574620383, 0.
4854311670575823, 0.48470445218540376
, 0.4938879322438013, 0.

2121 4926335133257366, 0.49175065472012475
, 0.49025937886465165, 0.
49039523204167684, 0.4912661592165629
, 0.4945259209190096, 0.
4841577932948158, 0.4862379797867366,
0.47989174070812407, 0.
48943863567851836, 0.4879996643179939
, 0.4887841420514243, 0.
49249148482368105, 0.48852484964189075
, 0.4939189612865448, 0.
48929387643223715, 0.480651920466196,
0.49021327126593817, 0.
4984690995443435, 0.486288606269019, 0.
.48800953371184214, 0.5266363226232075
, 0.5024436811606089, 0.
4817009659040542, 0.48091100198881964
, 0.4865527164368402, 0.
5015773480846768, 0.4839179010618301,
0.4808110129265558, 0.4850006137575422
, 0.4866581218583243, 0.
48313190028780983, 0.4786030349277315
, 0.4921960342498053, 0.
482241438967841, 0.47666192792710804,
0.49343967551276796, 0.

2121 48301018192654566, 0.484667619353249,
0.4772469168617612, 0.5039537781760806
, 0.5048437714576721, 0.
5092874927180154, 0.48809119292667935
, 0.48289862189974103, 0.
48979140718777975, 0.48640091646285283
, 0.4854899057320186, 0.
484798606804439, 0.4841999888420105, 0.
.4843340638137999, 0.4834873886335464
, 0.4833946883678436, 0.
48311251685732887, 0.48276930990673245
, 0.4831310737700689, 0.
4826443252109346, 0.4821619553225381,
0.48211934793563116, 0.
48159281270844595, 0.48238973276955743
, 0.4825765201023647, 0.
4830476258482252, 0.48277674459275743
, 0.482540918531872, 0.
4828068684963953, 0.4830166132677169,
0.4829795346373603, 0.4820130813689459
, 0.48202493190765383, 0.
48263954435076034, 0.4823201644988287
, 0.4819520314534505, 0.
4825302172274817, 0.4821666933241345,

2121 0.4817823784691947, 0.4818216289792742
, 0.48200492773737225, 0.
4824232430685134, 0.4820538722333454,
0.4820294025398436, 0.4819026501405807
, 0.4812793498947507, 0.
48182348836035954, 0.481842224087034,
0.4821797626359122, 0.4816574045589992
, 0.48195746257191613, 0.
4823336195378076, 0.4817320199239822,
0.4814582714012691, 0.4811993877092997
, 0.4811294322922116, 0.
48127180593354363, 0.48136923057692393
, 0.48123515929494587, 0.
48146050430479503, 0.48175376937502906
, 0.48144607884543283, 0.
48145375705900645, 0.48156713304065524
, 0.4813748504434313, 0.
4814855711800711, 0.48190661867459617
, 0.4815320426509494, 0.
4813849244798933, 0.48151062726974486
, 0.4812936325867971, 0.
48131132352919803, 0.481327744325002,
0.4818085511525472, 0.4819138637610844
, 0.48198721522376653, 0.

2121 4818471051397778, 0.48230269125529696
, 0.48215110301971437, 0.
48225961242403304, 0.48265614594732015
, 0.4819552160444714, 0.
48153288421176726, 0.4817205954165686
, 0.4814352254072825, 0.
48187653110140843, 0.4814122838633401
, 0.48169326668693907, 0.
48222634508496237, 0.48241948513757615
, 0.4822307623568035, 0.
4819846323558262, 0.4818030513468243,
0.4818233424708957, 0.
48100530874161496, 0.48206146671658473
, 0.482485492456527, 0.
4820614230065119, 0.4818459363210769,
0.48216114441553753, 0.
48263335880779085, 0.48198262736910863
, 0.48223210629962737, 0.
48276929770197186, 0.48235680148715065
, 0.48290436636833917, 0.
48274906135740736, 0.48180989623069764
, 0.4821013427916027, 0.
48205816518692746, 0.4819950455711001
, 0.48200597025099257, 0.

2121 48201218928609574, 0.48193639573596775
, 0.48191825123060317, 0.
4819110174973806, 0.4819251704783667,
0.48189699820109777, 0.
48186166541916986, 0.48188420959881373
, 0.48191164079166593, 0.
4819266631489708, 0.48195427656173706
, 0.48190040928976874, 0.
48185644717443554, 0.48185375872112457
, 0.4819042858623323, 0.
4819157103697459, 0.4819104756627764,
0.48186970892406644, 0.
4818872795218513, 0.4819122041974749,
0.48191444135847544, 0.
4819335063298543, 0.48187835358438036
, 0.48189759254455566, 0.
4818899256842477, 0.4818462908267975,
0.4818149399189722, 0.
48182422320048013, 0.48183474370411467
, 0.4818500779923939, 0.
48188316367921374, 0.48192175115857805
, 0.4819420630023593, 0.
48197485719408306, 0.4819886196227301
, 0.4819890904994238, 0.

2121 48202355135054814, 0.48206815464156016
, 0.4821012400445484, 0.
48204902779488334, 0.48200286541666304
, 0.4820057221821376, 0.
4819519939876738, 0.48196959098180137
, 0.48197913538841974, 0.
48195315429142543, 0.48195973606336684
, 0.4819742583093189, 0.
48195845853714714, 0.48190119011061533
, 0.481924288329624, 0.48193209142912
, 0.4819609596615746, 0.
48198031981786094, 0.48200478213174003
, 0.48201344722793216, 0.
4819580745129358, 0.48196301658948265
, 0.48189541640735806, 0.
4818990187985556, 0.4819116575377328,
0.4819181669326056, 0.
48195211603527977, 0.48195375942048574
, 0.48200263437770663, 0.
48203692322685604, 0.4820464872178577
, 0.48207124301365445, 0.
4820658570244199, 0.48199409672192167
, 0.48197031361716136, 0.
48195001908711027, 0.4820013701915741

2121 , 0.4819860549200149, 0.
4819447792711712, 0.4819311703954424,
0.4819373252845946, 0.481927684375218
, 0.48191966187386287, 0.
4819570407980964, 0.4820029570942833,
0.48196680999937513, 0.
48200338568006246, 0.48197971781094867
, 0.48191864007995244, 0.
48186251719792683, 0.4818384919847761
, 0.48184299582526796, 0.
4819018037546249, 0.48185262651670546
, 0.4818381848789397, 0.
4818870822588603, 0.48187310440199715
, 0.48193714022636414, 0.
4818901777267456, 0.48191458185513814
, 0.4819449081307366, 0.
48194804333505176, 0.4819476002738589
, 0.4819511461825598, 0.
4819558430285681, 0.48196114216532027
, 0.4819606539748964, 0.
4819623351097107, 0.48195835579009283
, 0.48196038405100505, 0.
4819589152222588, 0.4819595109848749,
0.48196217985380263, 0.

2121 48196180377687725, 0.4819557632718767
, 0.48194910940669833, 0.
4819457340808142, 0.4819474575065431,
0.4819496273994446, 0.4819451939491999
, 0.481940770149231, 0.
4819410945687975, 0.4819440353484381,
0.48194878129732044, 0.
4819476783275604, 0.4819428077765873,
0.4819459722155616, 0.4819421947002411
, 0.48194020958173844, 0.
48194322557676406, 0.4819409861451104
, 0.48193828151339574, 0.
48193268435341974, 0.48193261680148897
, 0.4819386726333981, 0.
481941381806419, 0.4819421433267139, 0.
.4819373227301098, 0.4819409566266196
, 0.48193941173099336, 0.
4819342181796119, 0.48192766535849796
, 0.4819242264543261, 0.
48192617155256723, 0.48192338460967654
, 0.48192685558682397, 0.
4819287856419881, 0.4819244100933983,
0.4819270091397422, 0.4819343669073922
, 0.4819364820207868, 0.

2121 4819329525743212, 0.48192962521598454
, 0.48193700767698744, 0.
4819435485771724, 0.4819446697121575,
0.48194287107104344, 0.
4819454227175031, 0.4819398630233038,
0.48193852277029126, 0.
4819423630124047, 0.4819392570427486,
0.4819415631748381, 0.
48194665057318553, 0.48195031114986964
, 0.48194584051767986, 0.
48194495950426375, 0.4819408362820035
, 0.48194184274900526, 0.
4819391823950268, 0.48194471682821, 0.
48194246008282615, 0.48193942450341726
, 0.481935392391114, 0.
4819308814548311, 0.48193298606645496
, 0.4819324323109218, 0.
481935023977643, 0.4819377070381528, 0.
.4819405274731772, 0.4819427206402733
, 0.4819426746595474, 0.
48194144141106376, 0.4819467022305443
, 0.48194497738565717, 0.
48194259291603453, 0.4819452416329157
, 0.4819449050085885, 0.

2121 48194756422724044, 0.48195345344997587
, 0.48195603234427314, 0.
48195513430095854, 0.48195602950595673
, 0.4819548720405215, 0.
48195726644425163, 0.4819502504098983
, 0.48195068126633056, 0.
48195437221300036, 0.4819540287767138
, 0.481956330367497, 0.
48195873215084983, 0.48196103402546475
, 0.4819614816279638, 0.
4819623853479113, 0.48196169875916983
, 0.48196540560041157, 0.
48196728768802827, 0.48196379911331905
, 0.48195945052873523, 0.
481957137017023, 0.4819591184457143, 0.
.48196493614287605, 0.4819639878613608
, 0.48195861265772866, 0.
48195879828362237, 0.48195830839020865
, 0.481954897017706, 0.
4819549546355293, 0.48195220544224693
, 0.4819491031624022, 0.
4819542899018242, 0.4819569371995472,
0.48195385138193764, 0.
4819523476418995, 0.4819546407177335,

2121 0.48195591767628987, 0.
4819537951832726, 0.4819558362166087,
0.48195616744813463, 0.
4819565457957132, 0.4819517456349872,
0.48195258975028993, 0.
4819472659201849, 0.4819515883922577,
0.4819531534399305, 0.4819514021987007
, 0.4819537526085263, 0.
4819529828571138, 0.48195426861445106
, 0.4819573978583018, 0.
4819596406959352, 0.4819585788817633,
0.48195686510631014, 0.481951741093681
, 0.48195234423591976, 0.
4819572357904343, 0.4819531156903222,
0.4819538570585705, 0.4819523101761228
, 0.48194997367404757, 0.
4819528417927878, 0.4819566528002421,
0.48195245947156634, 0.
48195389679500034, 0.48195770127432686
, 0.4819597428753262, 0.
4819607036454337, 0.4819607768739973,
0.4819639807655698, 0.4819637145314898
, 0.48196552849951246, 0.
4819637908822014, 0.4819598751408713,

2121 0.4819587991351173, 0.4819569298199245
, 0.4819590020747412, 0.
4819565480663663, 0.4819549878438314,
0.4819590355668749, 0.
48195763343856446, 0.48196018763950893
, 0.4819641283580235, 0.
481964267435528, 0.48196116402035666,
0.4819622794787089, 0.
48196608764784676, 0.4819700309208461
, 0.4819683600039709, 0.
48197235606965566, 0.48197648582004365
, 0.48197645545005796, 0.
4819820469334012, 0.48198358161108834
, 0.48198549378485905, 0.
4819877545038859, 0.48198691436222624
, 0.481982581956046, 0.
4819818794727325, 0.48198225725264776
, 0.4819869538148244, 0.
4819844311191922, 0.48198240030379524
, 0.4819850711595444, 0.
4819872518380483, 0.4819845545859564,
0.48198591300419397, 0.
4819891765004113, 0.48198784760066443
, 0.4819870781330835, 0.

2121 4819844316868555, 0.48198666828019276
, 0.4819831291834513, 0.
48197887681779406, 0.48197181678953627
, 0.4819664747942062, 0.
48196141464369635, 0.48196241429873876
, 0.48196139335632326, 0.
4819638076282683, 0.48196776111920675
, 0.48196197152137754, 0.
48196028357460385, 0.48195744724500744
, 0.4819568389937991, 0.
48195443266914006, 0.48195008777436754
, 0.4819442093372345, 0.
48194304960114615, 0.48194272120793663
, 0.48194856303078787, 0.
48195216570581706, 0.4819472849369049
, 0.48195252532050725, 0.
48194727557046074, 0.48194790255455744
, 0.48194778249377296, 0.
4819438948517754, 0.4819419770013718,
0.4819445868333181, 0.4819406452633086
, 0.48194116041773843, 0.
4819362032981146, 0.4819345127968561,
0.48193646839686805, 0.
4819325151897612, 0.4819329585347857,

2121 0.4819302558898926, 0.4819330820015499
, 0.48193872088477724, 0.
4819439067727044, 0.48194292471522376
, 0.4819379392124358, 0.
48193917870521547, 0.4819392945085253
, 0.4819336987677075, 0.
4819387015842256, 0.48194058594249545
, 0.4819353134859176, 0.
48192990365482513, 0.4819288622765314
, 0.48193443105334327, 0.
4819315512975057, 0.48193681921277726
, 0.48194222365106854, 0.
4819439073403676, 0.48195005910737176
, 0.4819516684327807, 0.
48194554164296105, 0.4819469460419246
, 0.4819416412285396, 0.
4819425389880226, 0.4819382817972274,
0.4819391784213838, 0.4819429054146721
, 0.4819454045522781, 0.
48194254267783393, 0.4819433209441957
, 0.4819443486985706, 0.
48194625831785654, 0.4819438295704978
, 0.4819407925719307, 0.
48194344214030677, 0.48194211891719274

2121 , 0.48194704282851447, 0.
4819452115467617, 0.4819479598885491,
0.48194113799503874, 0.481947020973478
, 0.4819462035383497, 0.
48194463338170734, 0.4819402433577038
, 0.481935985883077, 0.
4819336235523224, 0.4819332128479367,
0.4819364215646471, 0.4819372302009946
, 0.48193089820089796, 0.
4819257091908228, 0.481926178080695, 0.
.4819230425925482, 0.48191946773301986
, 0.4819207134700957, 0.
48191939280146645, 0.4819148920831226
, 0.48191290015266053, 0.
4819083684966678, 0.4819098404475621,
0.48190464405786426, 0.
48190527529943555, 0.48190802051907494
, 0.4819034746715001, 0.
48190061818985713, 0.48190448936961944
, 0.48190279858452933, 0.
48190568713914783, 0.48190357656705946
, 0.48190395803678604, 0.
48189935173307147, 0.4818979277497246
, 0.48189791639645896, 0.

2121 48190008600552875, 0.4819043301400684
, 0.48190421660741173, 0.
4819087068239848, 0.48191091191200985
, 0.48191332817077637, 0.
4819173006784348, 0.4819135972431728,
0.4819117716380528, 0.4819107751051585
, 0.4819098231338319, 0.
4819057935760135, 0.48190765948522657
, 0.4819051089740935, 0.
4818996032079061, 0.4818974582921891,
0.48189391181582497, 0.
4818889217717307, 0.4818921937828972,
0.4818926731745402, 0.
48189747901189894, 0.4818929794288817
, 0.4818911830584208, 0.
4818943710554214, 0.481896569331487, 0.
.481895626442773, 0.4819001527059646,
0.4818992765176864, 0.4818962758495694
, 0.4818949690886906, 0.
48189607234228227, 0.48189658607755387
, 0.48189236266272406, 0.
48189025492895216, 0.48189378551074435
, 0.4818881588322776, 0.
4818948785463969, 0.4818893353144328,

2121 0.48188383352188835, 0.
4818783592610132, 0.4818803682213738,
0.48187688106582277, 0.
48187305387996493, 0.48187247401192074
, 0.48187004838671005, 0.
4818729570933751, 0.4818684966791244,
0.4818688608351208, 0.
48186949576650345, 0.4818697532018026
, 0.4818728200026921, 0.
48187695344289144, 0.481876912571135,
0.48188167838823226, 0.
4818827294168018, 0.48188464244206747
, 0.481889576003665, 0.
48188982577550976, 0.4818827509880066
, 0.48187885397956487, 0.
4818752768493834, 0.48187940773509796
, 0.48188407988775345, 0.
4818893497898465, 0.481886328969683, 0.
.481887431087948, 0.48189163094475157
, 0.4818877946762812, 0.48188385282244
, 0.4818880035763695, 0.
48189057054973783, 0.4818851099127815
, 0.48188303652263825, 0.
4818819738569714, 0.48188368053663344

2121 , 0.48188747990699043, 0.
48188575335911343, 0.481883138134366,
0.48188192447026573, 0.
4818767987546467, 0.48187496662139895
, 0.4818746541227613, 0.
48187229860396613, 0.48187199320111956
, 0.481877399058569, 0.
48187900128818695, 0.48188215550922214
, 0.48187986725852605, 0.
4818829806078048, 0.48188252108437674
, 0.4818804806187039, 0.
48187683082762217, 0.4818740787960234
, 0.4818754267124903, 0.
48187247202509925, 0.48187728694507054
, 0.4818717170329321, 0.
48186616386686054, 0.48186783904121033
, 0.4818665617988223, 0.
48186736277171544, 0.4818629659357525
, 0.48186742549850825, 0.
48186990448406763, 0.4818661950883411
, 0.4818611380599794, 0.
48185705712863375, 0.48185272415479025
, 0.4818505781037467, 0.48184700352805
, 0.4818514108657837, 0.

2121 4818476597468058, 0.481850989091964, 0.
.481850779908044, 0.48185437037831264
, 0.4818546454111735, 0.
48185241790044875, 0.48185464626266844
, 0.4818554049446469, 0.
4818561866169884, 0.48185854071662537
, 0.481853377251398, 0.
48185694416364033, 0.4818533420562744
, 0.4818583729721251, 0.
48185804315975733, 0.48186067342758176
, 0.4818663003898802, 0.
48186794036910646, 0.4818674107392629
, 0.4818687166486468, 0.
4818706415948414, 0.48186989568528676
, 0.481867409887768, 0.
48186654732340856, 0.48186447223027545
, 0.4818648429143996, 0.
48186009583019074, 0.48185647271928334
, 0.48185846351441886, 0.
4818543323448726, 0.4818586068493979,
0.48185863636788867, 0.
48185927555674596, 0.481859051329749,
0.48186062347321285, 0.
4818605420135316, 0.48186263016292025

2121 , 0.4818673744088128, 0.
4818630153224582, 0.48187049939518883
, 0.4818680570239112, 0.
4818655754838671, 0.48186505550429937
, 0.4818654298782349, 0.
48186905894960674, 0.4818711953503745
, 0.4818676630655924, 0.
48186111677260623, 0.481858613945189,
0.4818533684526171, 0.
48184953502246314, 0.4818508656251998
, 0.48184980608168104, 0.
48185292056628637, 0.4818565289179484
, 0.4818591912587484, 0.
4818573321614947, 0.4818561133884248,
0.4818590834027245, 0.481858263696943
, 0.48186004133451554, 0.
48185739801043553, 0.48185601120903376
, 0.48185909248533704, 0.
48185872918083555, 0.4818646416777656
, 0.4818689675558181, 0.
4818681648799351, 0.48187091804686044
, 0.4818680913675399, 0.
4818663389909835, 0.48186926955268494
, 0.4818655570348104, 0.

2121 481867964494796, 0.4818727521669297, 0.
.4818757045836676, 0.48187873221579053
, 0.48188239846910746, 0.
4818802901676723, 0.4818804845923469,
0.4818759208633786, 0.4818829868521009
, 0.4818781642686753, 0.
48188016357876007, 0.48188060295014157
, 0.4818781739189511, 0.
48187141304924375, 0.48186925592876617
, 0.48186447819073996, 0.
4818666219711304, 0.48186825457073396
, 0.4818687018894014, 0.
48186666738419304, 0.4818692215851375
, 0.48186672301519484, 0.
481867192756562, 0.48186885629381454,
0.4818690246059781, 0.
48187141531989686, 0.4818724127042861
, 0.4818742578937894, 0.
4818761842591422, 0.4818729528359004,
0.4818744937578837, 0.4818762472697667
, 0.48187849947384426, 0.
481878753219332, 0.48187956582932245,
0.4818773136252449, 0.481873444432304
, 0.48187508356003533, 0.

2121 48188069746607826, 0.4818764456680843
, 0.4818724056084951, 0.
48187134038834345, 0.4818741934640067
, 0.48187625578471593, 0.
4818759983494168, 0.48187445600827533
, 0.48187782423836845, 0.
4818744330179124, 0.481879110563369, 0.
.4818739337580545, 0.4818755970114753
, 0.4818719154312497, 0.
48186819297926764, 0.4818637518655686
, 0.4818571062315078, 0.
4818562203929538, 0.481857103677023, 0.
.48185614744822186, 0.4818502914337885
, 0.4818458534422375, 0.
48184836024329775, 0.481848399695896,
0.48184765719232103, 0.
4818525067397526, 0.4818545622485025,
0.481849357627687, 0.481855156875792,
0.4818555882998875, 0.
48185924348377046, 0.4818656058538528
, 0.4818696981384641, 0.
4818682982808068, 0.4818659864720844,
0.48186904475802467, 0.
4818662180787041, 0.48186247178486413

2121 , 0.4818678333645775, 0.
48186816828591483, 0.4818694619905381
, 0.481873991943541, 0.
48187759547006515, 0.48188157280286154
, 0.4818792260828472, 0.
48188333227520896, 0.4818868259588877
, 0.4818880592073713, 0.
48188495295388356, 0.4818906176657904
, 0.4818954198133378, 0.
48189326865332466, 0.48189600280353, 0.
.4818909784158071, 0.48189059978439697
, 0.4818936532451993, 0.
48188648649624416, 0.4818906383855002
, 0.48188848381950744, 0.
48189132241975696, 0.48189539710680646
, 0.48190193289802186, 0.
481900030374527, 0.4819028905459813, 0.
.48190242733274186, 0.4819050615742093
, 0.4818993670599801, 0.
48190687866438003, 0.4819018366790953
, 0.4819001345407395, 0.
48189717815035865, 0.4818947658652351
, 0.48189000742776056, 0.
4818866454419636, 0.4818874478340149,

2121 0.48188829053015936, 0.481887679156803
, 0.48188535485948836, 0.
48188428084055585, 0.481882252295812,
0.48188708821932474, 0.
48188413693791343, 0.4818780583994729
, 0.4818750906558264, 0.
4818717048281715, 0.48187526776677087
, 0.48187639656521025, 0.
4818758677868616, 0.48187314158394223
, 0.4818748195966085, 0.
4818811254841941, 0.4818821004458836,
0.4818870941797892, 0.4818850925990513
, 0.48188514624323164, 0.
4818885201499576, 0.4818852912812006,
0.4818836039020902, 0.
48188245637076244, 0.4818829411552066
, 0.4818841536839803, 0.
4818800795645941, 0.4818753407115028,
0.48188091090747287, 0.
48188714810780114, 0.4818916008585975
, 0.48189489529246377, 0.
4818900860491253, 0.4818941048213414,
0.4818939152218047, 0.
48189466113135926, 0.48189379970232643

2121 , 0.4818900832108089, 0.
4818905450048901, 0.48188504917281016
, 0.4818851524875278, 0.
4818904692218417, 0.4818831409726824,
0.481883351291929, 0.48188053965568545
, 0.48187599976857504, 0.
4818698709919339, 0.48187320771671477
, 0.48186617607162113, 0.
4818671839577811, 0.48186304966608684
, 0.4818631035940988, 0.
4818665910334814, 0.4818731801850455,
0.4818756742136819, 0.4818711459636688
, 0.48187179622196014, 0.
48187543011846995, 0.4818761740412031
, 0.4818733888013022, 0.
48186952613648915, 0.48187461239950996
, 0.48187229633331297, 0.
4818754724093846, 0.48187789462861563
, 0.48188053852035884, 0.
4818796455860138, 0.4818768137977237,
0.4818811569895063, 0.4818822517281487
, 0.4818804204463959, 0.
48187882758322215, 0.48187896864754814
, 0.4818788775375911, 0.

2121 4818795522054036, 0.48188634117444357
, 0.481889751127788, 0.
4818881903375898, 0.4818870981534322,
0.4818904186998095, 0.481888675122034
, 0.48189314490272883, 0.
4818912040619623, 0.4818975181806655,
0.48189463445118497, 0.
48188913805144173, 0.4818872985385713
, 0.4818844068618048, 0.
48188632811818805, 0.4818926215171814
, 0.4818946270715623, 0.
4818894153549558, 0.48188488483428954
, 0.4818889720099313], 'lr': [0.001, 0.
.001, 0.001, 0.001, 0.001, 0.
001, 0.001, 0.001, 0.001, 0.001, 0.001
, 0.001, 0.001, 0.001, 0.001, 0.001, 0.
.001, 0.001, 0.001, 0.001, 0.001, 0.
001, 0.001, 0.001, 0.001, 0.001, 0.001
, 0.001, 0.001, 0.001, 0.001, 0.001, 0.
.001, 0.001, 0.001, 0.001, 0.001, 0.
001, 0.001, 0.001, 0.001, 0.001, 0.001
, 0.001, 0.001, 0.001, 0.001, 0.001, 0.
.001, 0.001, 0.001, 0.001, 0.001, 0.
001, 0.001, 0.001, 0.001, 0.001, 0.001

2121 , 0.001, 0.001, 0.001, 0.001, 0.001, 0.
.001, 0.001, 0.001, 0.001, 0.001, 0.
001, 0.001, 0.001, 0.001, 0.001, 0.001
, 0.001, 0.001, 0.001, 0.001, 0.001, 0.
.001, 0.001, 0.001, 0.001, 0.001, 0.
001, 0.001, 0.001, 0.001, 0.001, 0.001
, 0.001, 0.001, 0.001, 0.001, 0.001, 0.
.001, 0.001, 0.001, 0.001, 0.001, 0.
001, 0.001, 0.001, 0.001, 0.001, 0.001
, 0.001, 0.001, 0.001, 0.001, 0.001, 0.
.001, 0.001, 0.001, 0.001, 0.001, 0.
001, 0.001, 0.001, 0.001, 0.001, 0.001
, 0.001, 0.001, 0.001, 0.001, 0.001, 0.
.001, 0.001, 0.001, 0.001, 0.001, 0.
001, 0.001, 0.001, 0.001, 0.001, 0.001
, 0.00100000005, 0.00100000005, 0.
000100000005, 0.000100000005, 0.
000100000005, 0.000100000005, 0.
000100000005, 0.000100000005, 0.
000100000005, 0.000100000005, 0.
000100000005, 0.000100000005, 0.
000100000005, 0.000100000005, 0.
000100000005, 0.000100000005, 0.
000100000005, 0.000100000005, 0.

[illegible]

```
2121 000100000005, 0.000100000005, 0.
000100000005, 0.000100000005, 0.
000100000005, 0.000100000005, 0.
000100000005, 0.000100000005, 0.
000100000005, 0.000100000005, 0.
000100000005, 0.000100000005, 0.
000100000005, 0.000100000005, 0.
000100000005, 0.000100000005, 0.
000100000005, 0.000100000005, 0.
000100000005, 0.000100000005, 0.
000100000005, 0.000100000005, 0.
000100000005, 0.000100000005, 0.
000100000005, 0.000100000005, 0.
000100000005, 0.000100000005, 0.
000100000005, 0.000100000005, 0.
000100000005, 0.000100000005, 0.
000100000005, 0.000100000005, 0.
000100000005, 0.000100000005, 1.
0000001e-05, 1.0000001e-05, 1.0000001e
-05, 1.0000001e-05, 1.0000001e-05, 1.
0000001e-05, 1.0000001e-05, 1.0000001e
-05, 1.0000001e-05, 1.0000001e-05, 1.
0000001e-05, 1.0000001e-05, 1.0000001e
-05, 1.0000001e-05, 1.0000001e-05, 1.
0000001e-05, 1.0000001e-05, 1.0000001e
```

0000001e-05, 1.0000001e-05, 1.0000001e

2121 -05, 1.0000001e-05, 1.0000001e-05, 1.
0000001e-05, 1.0000001e-05, 1.0000001e
-05, 1.0000001e-05, 1.0000001e-05, 1.
0000001e-05, 1.0000001e-05, 1.0000001e
-05, 1.0000001e-05, 1.0000001e-05, 1.
0000001e-05, 1.0000001e-05, 1.0000001e
-05, 1.0000001e-05, 1.0000001e-05, 1.
0000001e-05, 1.0000001e-05, 1.0000001e
-05, 1.0000001e-05, 1.0000001e-05, 1.
0000001e-06, 1.0000001e-06, 1.0000001e
-06, 1.0000001e-06, 1.0000001e-06, 1.
0000001e-06, 1.0000001e-06, 1.0000001e
-06, 1.0000001e-06, 1.0000001e-06, 1.
0000001e-06, 1.0000001e-06, 1.0000001e
-06, 1.0000001e-06, 1.0000001e-06, 1.
0000001e-06, 1.0000001e-06, 1.0000001e
-06, 1.0000001e-06, 1.0000001e-06, 1.
0000001e-06, 1.0000001e-06, 1.0000001e
-06, 1.0000001e-06, 1.0000001e-06, 1.
0000001e-06, 1.0000001e-06, 1.0000001e
-06, 1.0000001e-06, 1.0000001e-06, 1.
0000001e-06, 1.0000001e-06, 1.0000001e
-06, 1.0000001e-06, 1.0000001e-06, 1.
0000001e-06, 1.0000001e-06, 1.0000001e

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

```
2122 history.epoch = [0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54]
```

2122 , 55, 56, 57, 58, 59, 60, 61, 62, 63,
64, 65, 66, 67, 68, 69, 70, 71, 72, 73
, 74, 75, 76, 77, 78, 79, 80, 81, 82,
83, 84, 85, 86, 87, 88, 89, 90, 91, 92
, 93, 94, 95, 96, 97, 98, 99, 100, 101
, 102, 103, 104, 105, 106, 107, 108,
109, 110, 111, 112, 113, 114, 115, 116
, 117, 118, 119, 120, 121, 122, 123,
124, 125, 126, 127, 128, 129, 130, 131
, 132, 133, 134, 135, 136, 137, 138,
139, 140, 141, 142, 143, 144, 145, 146
, 147, 148, 149, 150, 151, 152, 153,
154, 155, 156, 157, 158, 159, 160, 161
, 162, 163, 164, 165, 166, 167, 168,
169, 170, 171, 172, 173, 174, 175, 176
, 177, 178, 179, 180, 181, 182, 183,
184, 185, 186, 187, 188, 189, 190, 191
, 192, 193, 194, 195, 196, 197, 198,
199, 200, 201, 202, 203, 204, 205, 206
, 207, 208, 209, 210, 211, 212, 213,
214, 215, 216, 217, 218, 219, 220, 221
, 222, 223, 224, 225, 226, 227, 228,
229, 230, 231, 232, 233, 234, 235, 236
, 237, 238, 239, 240, 241, 242, 243,

2122 244, 245, 246, 247, 248, 249, 250, 251
, 252, 253, 254, 255, 256, 257, 258,
259, 260, 261, 262, 263, 264, 265, 266
, 267, 268, 269, 270, 271, 272, 273,
274, 275, 276, 277, 278, 279, 280, 281
, 282, 283, 284, 285, 286, 287, 288,
289, 290, 291, 292, 293, 294, 295, 296
, 297, 298, 299, 300, 301, 302, 303,
304, 305, 306, 307, 308, 309, 310, 311
, 312, 313, 314, 315, 316, 317, 318,
319, 320, 321, 322, 323, 324, 325, 326
, 327, 328, 329, 330, 331, 332, 333,
334, 335, 336, 337, 338, 339, 340, 341
, 342, 343, 344, 345, 346, 347, 348,
349, 350, 351, 352, 353, 354, 355, 356
, 357, 358, 359, 360, 361, 362, 363,
364, 365, 366, 367, 368, 369, 370, 371
, 372, 373, 374, 375, 376, 377, 378,
379, 380, 381, 382, 383, 384, 385, 386
, 387, 388, 389, 390, 391, 392, 393,
394, 395, 396, 397, 398, 399, 400, 401
, 402, 403, 404, 405, 406, 407, 408,
409, 410, 411, 412, 413, 414, 415, 416
, 417, 418, 419, 420, 421, 422, 423,

2122 424, 425, 426, 427, 428, 429, 430, 431
, 432, 433, 434, 435, 436, 437, 438,
439, 440, 441, 442, 443, 444, 445, 446
, 447, 448, 449, 450, 451, 452, 453,
454, 455, 456, 457, 458, 459, 460, 461
, 462, 463, 464, 465, 466, 467, 468,
469, 470, 471, 472, 473, 474, 475, 476
, 477, 478, 479, 480, 481, 482, 483,
484, 485, 486, 487, 488, 489, 490, 491
, 492, 493, 494, 495, 496, 497, 498,
499, 500, 501, 502, 503, 504, 505, 506
, 507, 508, 509, 510, 511, 512, 513,
514, 515, 516, 517, 518, 519, 520, 521
, 522, 523, 524, 525, 526, 527, 528,
529, 530, 531, 532, 533, 534, 535, 536
, 537, 538, 539, 540, 541, 542, 543,
544, 545, 546, 547, 548, 549, 550, 551
, 552, 553, 554, 555, 556, 557, 558,
559, 560, 561, 562, 563, 564, 565, 566
, 567, 568, 569, 570, 571, 572, 573,
574, 575, 576, 577, 578, 579, 580, 581
, 582, 583, 584, 585, 586, 587, 588,
589, 590, 591, 592, 593, 594, 595, 596
, 597, 598, 599, 600, 601, 602, 603,

2122 604, 605, 606, 607, 608, 609, 610, 611
, 612, 613, 614, 615, 616, 617, 618,
619, 620, 621, 622, 623, 624, 625, 626
, 627, 628, 629, 630, 631, 632, 633,
634, 635, 636, 637, 638, 639, 640, 641
, 642, 643, 644, 645, 646, 647, 648,
649, 650, 651, 652, 653, 654, 655, 656
, 657, 658, 659, 660, 661, 662, 663,
664, 665, 666, 667, 668, 669, 670, 671
, 672, 673, 674, 675, 676, 677, 678,
679, 680, 681, 682, 683, 684, 685, 686
, 687, 688, 689, 690, 691, 692, 693,
694, 695, 696, 697, 698, 699, 700, 701
, 702, 703, 704, 705, 706, 707, 708,
709, 710, 711, 712, 713, 714, 715, 716
, 717, 718, 719, 720, 721, 722, 723,
724, 725, 726, 727, 728, 729, 730, 731
, 732, 733, 734, 735, 736, 737, 738,
739, 740, 741, 742, 743, 744, 745, 746
, 747, 748, 749, 750, 751, 752, 753,
754, 755, 756, 757, 758, 759, 760, 761
, 762, 763, 764, 765, 766, 767, 768,
769, 770, 771, 772, 773, 774, 775, 776
, 777, 778, 779, 780, 781, 782, 783,

2122 784, 785, 786, 787, 788, 789, 790, 791
, 792, 793, 794, 795, 796, 797, 798,
799, 800, 801, 802, 803, 804, 805, 806
, 807, 808, 809, 810, 811, 812, 813,
814, 815, 816, 817, 818, 819, 820, 821
, 822, 823, 824, 825, 826, 827, 828,
829, 830, 831, 832, 833, 834, 835, 836
, 837, 838, 839, 840, 841, 842, 843,
844, 845, 846, 847, 848, 849, 850, 851
, 852, 853, 854, 855, 856, 857, 858,
859, 860, 861, 862, 863, 864, 865, 866
, 867, 868, 869, 870, 871, 872, 873,
874, 875, 876, 877, 878, 879, 880, 881
, 882, 883, 884, 885, 886, 887, 888,
889, 890, 891, 892, 893, 894, 895, 896
, 897, 898, 899, 900, 901, 902, 903,
904, 905, 906, 907, 908, 909, 910, 911
, 912, 913, 914, 915, 916, 917, 918,
919, 920, 921, 922, 923, 924, 925, 926
, 927, 928, 929, 930, 931, 932, 933,
934, 935, 936, 937, 938, 939, 940, 941
, 942, 943, 944, 945, 946, 947, 948,
949, 950, 951, 952, 953, 954, 955, 956
, 957, 958, 959, 960, 961, 962, 963,

```
2122 964, 965, 966, 967, 968, 969, 970, 971
    , 972, 973, 974, 975, 976, 977, 978,
    979, 980, 981, 982, 983, 984, 985, 986
    , 987, 988, 989, 990, 991, 992, 993,
    994, 995, 996, 997, 998, 999, 1000,
    1001, 1002, 1003, 1004, 1005, 1006,
    1007, 1008, 1009, 1010, 1011, 1012,
    1013, 1014, 1015, 1016, 1017, 1018,
    1019, 1020, 1021, 1022, 1023, 1024,
    1025, 1026, 1027, 1028, 1029, 1030,
    1031, 1032, 1033, 1034, 1035, 1036,
    1037, 1038, 1039]
```

```
2123 load the trained model
```

```
2124 #####model evaluate
    #####
```

```
2125 results val_loss: 0.4694716172818919
```

```
2126 results val_acc: 0.7862595415297355
```

```
2127
```

```
2128 Process finished with exit code 0
```

```
2129
```