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1 C:\Users\al19c9\anaconda3\envs\transport_maps_2\python
  .exe C:/Users/al19c9/PycharmProjects/DP-PPCA/
  classification.py
2 C:\Users\al19c9\PycharmProjects\DP-PPCA\classification
  .py:36: UserWarning: Implicit dimension choice for
  log_softmax has been deprecated. Change the call to
  include dim=X as an argument.
3     return F.log_softmax(x)
4 Train Epoch: 1 [0/8000 (0%)]    Loss: 2.306515
5 Train Epoch: 1 [1000/8000 (12%)]   Loss: 2.292327
6 Train Epoch: 1 [2000/8000 (25%)]   Loss: 2.309960
7 Train Epoch: 1 [3000/8000 (38%)]   Loss: 2.296257
8 Train Epoch: 1 [4000/8000 (50%)]   Loss: 2.295709
9 Train Epoch: 1 [5000/8000 (62%)]   Loss: 2.308208
10 Train Epoch: 1 [6000/8000 (75%)]  Loss: 2.305247
11 Train Epoch: 1 [7000/8000 (88%)]  Loss: 2.298490
12
13 Test set: Avg. loss: 2.2964, Accuracy: 216/2000 (10.
  800%)
14
15 New best test_loss: 2.2964439392089844!
16 Train Epoch: 2 [0/8000 (0%)]    Loss: 2.296480
17 Train Epoch: 2 [1000/8000 (12%)]   Loss: 2.291049
18 Train Epoch: 2 [2000/8000 (25%)]   Loss: 2.297193
19 Train Epoch: 2 [3000/8000 (38%)]   Loss: 2.293756
20 Train Epoch: 2 [4000/8000 (50%)]   Loss: 2.293882
21 Train Epoch: 2 [5000/8000 (62%)]   Loss: 2.297185
22 Train Epoch: 2 [6000/8000 (75%)]  Loss: 2.295335
23 Train Epoch: 2 [7000/8000 (88%)]  Loss: 2.287417
24
25 Test set: Avg. loss: 2.2839, Accuracy: 219/2000 (10.
  950%)
26
27 New best test_loss: 2.2839245796203613!
28 Train Epoch: 3 [0/8000 (0%)]    Loss: 2.293953
29 Train Epoch: 3 [1000/8000 (12%)]   Loss: 2.265978
30 Train Epoch: 3 [2000/8000 (25%)]   Loss: 2.278704
31 Train Epoch: 3 [3000/8000 (38%)]   Loss: 2.282559
32 Train Epoch: 3 [4000/8000 (50%)]   Loss: 2.283976
33 Train Epoch: 3 [5000/8000 (62%)]  Loss: 2.276865
34 Train Epoch: 3 [6000/8000 (75%)]  Loss: 2.279621
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35 Train Epoch: 3 [7000/8000 (88%)]      Loss: 2.264813
36
37 Test set: Avg. loss: 2.2530, Accuracy: 763/2000 (38.
150%)
38
39 New best test_loss: 2.253032684326172!
40 Train Epoch: 4 [0/8000 (0%)]      Loss: 2.258026
41 Train Epoch: 4 [1000/8000 (12%)]      Loss: 2.241111
42 Train Epoch: 4 [2000/8000 (25%)]      Loss: 2.242077
43 Train Epoch: 4 [3000/8000 (38%)]      Loss: 2.249264
44 Train Epoch: 4 [4000/8000 (50%)]      Loss: 2.208772
45 Train Epoch: 4 [5000/8000 (62%)]      Loss: 2.231835
46 Train Epoch: 4 [6000/8000 (75%)]      Loss: 2.214489
47 Train Epoch: 4 [7000/8000 (88%)]      Loss: 2.173093
48
49 Test set: Avg. loss: 2.1360, Accuracy: 1250/2000 (62.
500%)
50
51 New best test_loss: 2.135951280593872!
52 Train Epoch: 5 [0/8000 (0%)]      Loss: 2.193375
53 Train Epoch: 5 [1000/8000 (12%)]      Loss: 2.141964
54 Train Epoch: 5 [2000/8000 (25%)]      Loss: 2.097575
55 Train Epoch: 5 [3000/8000 (38%)]      Loss: 2.077528
56 Train Epoch: 5 [4000/8000 (50%)]      Loss: 2.016324
57 Train Epoch: 5 [5000/8000 (62%)]      Loss: 1.985603
58 Train Epoch: 5 [6000/8000 (75%)]      Loss: 1.881978
59 Train Epoch: 5 [7000/8000 (88%)]      Loss: 1.841507
60
61 Test set: Avg. loss: 1.5621, Accuracy: 1477/2000 (73.
850%)
62
63 New best test_loss: 1.5621323585510254!
64 Train Epoch: 6 [0/8000 (0%)]      Loss: 1.807922
65 Train Epoch: 6 [1000/8000 (12%)]      Loss: 1.688841
66 Train Epoch: 6 [2000/8000 (25%)]      Loss: 1.578300
67 Train Epoch: 6 [3000/8000 (38%)]      Loss: 1.579446
68 Train Epoch: 6 [4000/8000 (50%)]      Loss: 1.396005
69 Train Epoch: 6 [5000/8000 (62%)]      Loss: 1.442143
70 Train Epoch: 6 [6000/8000 (75%)]      Loss: 1.354268
71 Train Epoch: 6 [7000/8000 (88%)]      Loss: 1.184396
72
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73 Test set: Avg. loss: 0.8944, Accuracy: 1578/2000 (78
.900%)
74
75 New best test_loss: 0.8943945169448853!
76 Train Epoch: 7 [0/8000 (0%)] Loss: 1.082115
77 Train Epoch: 7 [1000/8000 (12%)] Loss: 1.139343
78 Train Epoch: 7 [2000/8000 (25%)] Loss: 1.174620
79 Train Epoch: 7 [3000/8000 (38%)] Loss: 1.150125
80 Train Epoch: 7 [4000/8000 (50%)] Loss: 1.062661
81 Train Epoch: 7 [5000/8000 (62%)] Loss: 1.079900
82 Train Epoch: 7 [6000/8000 (75%)] Loss: 0.956664
83 Train Epoch: 7 [7000/8000 (88%)] Loss: 1.006414
84
85 Test set: Avg. loss: 0.6363, Accuracy: 1670/2000 (83
.500%)
86
87 New best test_loss: 0.6363223195075989!
88 Train Epoch: 8 [0/8000 (0%)] Loss: 0.851376
89 Train Epoch: 8 [1000/8000 (12%)] Loss: 0.939730
90 Train Epoch: 8 [2000/8000 (25%)] Loss: 0.827192
91 Train Epoch: 8 [3000/8000 (38%)] Loss: 0.851373
92 Train Epoch: 8 [4000/8000 (50%)] Loss: 0.988319
93 Train Epoch: 8 [5000/8000 (62%)] Loss: 1.008977
94 Train Epoch: 8 [6000/8000 (75%)] Loss: 0.931107
95 Train Epoch: 8 [7000/8000 (88%)] Loss: 0.805110
96
97 Test set: Avg. loss: 0.4971, Accuracy: 1736/2000 (86
.800%)
98
99 New best test_loss: 0.4970737397670746!
100 Train Epoch: 9 [0/8000 (0%)] Loss: 0.697761
101 Train Epoch: 9 [1000/8000 (12%)] Loss: 0.859919
102 Train Epoch: 9 [2000/8000 (25%)] Loss: 0.691417
103 Train Epoch: 9 [3000/8000 (38%)] Loss: 0.791642
104 Train Epoch: 9 [4000/8000 (50%)] Loss: 0.840450
105 Train Epoch: 9 [5000/8000 (62%)] Loss: 0.734770
106 Train Epoch: 9 [6000/8000 (75%)] Loss: 0.788569
107 Train Epoch: 9 [7000/8000 (88%)] Loss: 0.820297
108
109 Test set: Avg. loss: 0.4369, Accuracy: 1781/2000 (89
.050%)
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110
111 New best test_loss: 0.4369489252567291!
112 Train Epoch: 10 [0/8000 (0%)] Loss: 0.659985
113 Train Epoch: 10 [1000/8000 (12%)] Loss: 0.673277
114 Train Epoch: 10 [2000/8000 (25%)] Loss: 0.804930
115 Train Epoch: 10 [3000/8000 (38%)] Loss: 0.844345
116 Train Epoch: 10 [4000/8000 (50%)] Loss: 0.762150
117 Train Epoch: 10 [5000/8000 (62%)] Loss: 0.929117
118 Train Epoch: 10 [6000/8000 (75%)] Loss: 0.737492
119 Train Epoch: 10 [7000/8000 (88%)] Loss: 0.761684
120
121 Test set: Avg. loss: 0.3912, Accuracy: 1779/2000 (88
.950%)
122
123 New best test_loss: 0.391185462474823!
124 Train Epoch: 11 [0/8000 (0%)] Loss: 0.590601
125 Train Epoch: 11 [1000/8000 (12%)] Loss: 0.689043
126 Train Epoch: 11 [2000/8000 (25%)] Loss: 0.721351
127 Train Epoch: 11 [3000/8000 (38%)] Loss: 0.708962
128 Train Epoch: 11 [4000/8000 (50%)] Loss: 0.706969
129 Train Epoch: 11 [5000/8000 (62%)] Loss: 0.728737
130 Train Epoch: 11 [6000/8000 (75%)] Loss: 0.628640
131 Train Epoch: 11 [7000/8000 (88%)] Loss: 0.610298
132
133 Test set: Avg. loss: 0.3588, Accuracy: 1804/2000 (90
.200%)
134
135 New best test_loss: 0.35880476236343384!
136 Train Epoch: 12 [0/8000 (0%)] Loss: 0.501591
137 Train Epoch: 12 [1000/8000 (12%)] Loss: 0.475794
138 Train Epoch: 12 [2000/8000 (25%)] Loss: 0.517015
139 Train Epoch: 12 [3000/8000 (38%)] Loss: 0.603519
140 Train Epoch: 12 [4000/8000 (50%)] Loss: 0.707440
141 Train Epoch: 12 [5000/8000 (62%)] Loss: 0.814313
142 Train Epoch: 12 [6000/8000 (75%)] Loss: 0.509995
143 Train Epoch: 12 [7000/8000 (88%)] Loss: 0.620220
144
145 Test set: Avg. loss: 0.3340, Accuracy: 1811/2000 (90
.550%)
146
147 New best test_loss: 0.3340110182762146!
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148 Train Epoch: 13 [0/8000 (0%)] Loss: 0.568472
149 Train Epoch: 13 [1000/8000 (12%)] Loss: 0.659964
150 Train Epoch: 13 [2000/8000 (25%)] Loss: 0.607970
151 Train Epoch: 13 [3000/8000 (38%)] Loss: 0.636165
152 Train Epoch: 13 [4000/8000 (50%)] Loss: 0.549327
153 Train Epoch: 13 [5000/8000 (62%)] Loss: 0.610596
154 Train Epoch: 13 [6000/8000 (75%)] Loss: 0.532637
155 Train Epoch: 13 [7000/8000 (88%)] Loss: 0.592617
156
157 Test set: Avg. loss: 0.3070, Accuracy: 1825/2000 (91
.250%)
158
159 New best test_loss: 0.3069668114185333!
160 Train Epoch: 14 [0/8000 (0%)] Loss: 0.370980
161 Train Epoch: 14 [1000/8000 (12%)] Loss: 0.500820
162 Train Epoch: 14 [2000/8000 (25%)] Loss: 0.585572
163 Train Epoch: 14 [3000/8000 (38%)] Loss: 0.760120
164 Train Epoch: 14 [4000/8000 (50%)] Loss: 0.588007
165 Train Epoch: 14 [5000/8000 (62%)] Loss: 0.651471
166 Train Epoch: 14 [6000/8000 (75%)] Loss: 0.612465
167 Train Epoch: 14 [7000/8000 (88%)] Loss: 0.569791
168
169 Test set: Avg. loss: 0.2922, Accuracy: 1842/2000 (92
.100%)
170
171 New best test_loss: 0.2922062277793884!
172 Train Epoch: 15 [0/8000 (0%)] Loss: 0.469193
173 Train Epoch: 15 [1000/8000 (12%)] Loss: 0.483558
174 Train Epoch: 15 [2000/8000 (25%)] Loss: 0.567805
175 Train Epoch: 15 [3000/8000 (38%)] Loss: 0.652496
176 Train Epoch: 15 [4000/8000 (50%)] Loss: 0.413908
177 Train Epoch: 15 [5000/8000 (62%)] Loss: 0.556421
178 Train Epoch: 15 [6000/8000 (75%)] Loss: 0.416851
179 Train Epoch: 15 [7000/8000 (88%)] Loss: 0.640997
180
181 Test set: Avg. loss: 0.2787, Accuracy: 1839/2000 (91
.950%)
182
183 New best test_loss: 0.2787397503852844!
184 Train Epoch: 16 [0/8000 (0%)] Loss: 0.360212
185 Train Epoch: 16 [1000/8000 (12%)] Loss: 0.475762
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186	Train Epoch: 16	[2000/8000 (25%)]	Loss: 0.509213
187	Train Epoch: 16	[3000/8000 (38%)]	Loss: 0.540117
188	Train Epoch: 16	[4000/8000 (50%)]	Loss: 0.564949
189	Train Epoch: 16	[5000/8000 (62%)]	Loss: 0.506522
190	Train Epoch: 16	[6000/8000 (75%)]	Loss: 0.567669
191	Train Epoch: 16	[7000/8000 (88%)]	Loss: 0.500657
192			
193	Test set:	Avg. loss: 0.2625, Accuracy: 1854/2000 (92.700%)	
194			
195	New best test_loss: 0.2624678611755371!		
196	Train Epoch: 17	[0/8000 (0%)]	Loss: 0.434895
197	Train Epoch: 17	[1000/8000 (12%)]	Loss: 0.423325
198	Train Epoch: 17	[2000/8000 (25%)]	Loss: 0.471087
199	Train Epoch: 17	[3000/8000 (38%)]	Loss: 0.577238
200	Train Epoch: 17	[4000/8000 (50%)]	Loss: 0.571680
201	Train Epoch: 17	[5000/8000 (62%)]	Loss: 0.601208
202	Train Epoch: 17	[6000/8000 (75%)]	Loss: 0.481945
203	Train Epoch: 17	[7000/8000 (88%)]	Loss: 0.575538
204			
205	Test set:	Avg. loss: 0.2515, Accuracy: 1859/2000 (92.950%)	
206			
207	New best test_loss: 0.25146690011024475!		
208	Train Epoch: 18	[0/8000 (0%)]	Loss: 0.364618
209	Train Epoch: 18	[1000/8000 (12%)]	Loss: 0.376822
210	Train Epoch: 18	[2000/8000 (25%)]	Loss: 0.360769
211	Train Epoch: 18	[3000/8000 (38%)]	Loss: 0.598568
212	Train Epoch: 18	[4000/8000 (50%)]	Loss: 0.478094
213	Train Epoch: 18	[5000/8000 (62%)]	Loss: 0.546116
214	Train Epoch: 18	[6000/8000 (75%)]	Loss: 0.458021
215	Train Epoch: 18	[7000/8000 (88%)]	Loss: 0.626013
216			
217	Test set:	Avg. loss: 0.2502, Accuracy: 1860/2000 (93.000%)	
218			
219	New best test_loss: 0.25017303228378296!		
220	Train Epoch: 19	[0/8000 (0%)]	Loss: 0.391600
221	Train Epoch: 19	[1000/8000 (12%)]	Loss: 0.435628
222	Train Epoch: 19	[2000/8000 (25%)]	Loss: 0.491313
223	Train Epoch: 19	[3000/8000 (38%)]	Loss: 0.459686

224	Train Epoch: 19	[4000/8000 (50%)]	Loss: 0.435227
225	Train Epoch: 19	[5000/8000 (62%)]	Loss: 0.629225
226	Train Epoch: 19	[6000/8000 (75%)]	Loss: 0.417888
227	Train Epoch: 19	[7000/8000 (88%)]	Loss: 0.443171
228			
229	Test set:	Avg. loss: 0.2339, Accuracy: 1863/2000 (93.150%)	
230			
231	New best test_loss:	0.23385240137577057!	
232	Train Epoch: 20	[0/8000 (0%)]	Loss: 0.264078
233	Train Epoch: 20	[1000/8000 (12%)]	Loss: 0.391090
234	Train Epoch: 20	[2000/8000 (25%)]	Loss: 0.389294
235	Train Epoch: 20	[3000/8000 (38%)]	Loss: 0.556200
236	Train Epoch: 20	[4000/8000 (50%)]	Loss: 0.336979
237	Train Epoch: 20	[5000/8000 (62%)]	Loss: 0.430765
238	Train Epoch: 20	[6000/8000 (75%)]	Loss: 0.488502
239	Train Epoch: 20	[7000/8000 (88%)]	Loss: 0.512258
240			
241	Test set:	Avg. loss: 0.2286, Accuracy: 1868/2000 (93.400%)	
242			
243	New best test_loss:	0.22863908112049103!	
244	Train Epoch: 21	[0/8000 (0%)]	Loss: 0.377192
245	Train Epoch: 21	[1000/8000 (12%)]	Loss: 0.418617
246	Train Epoch: 21	[2000/8000 (25%)]	Loss: 0.404860
247	Train Epoch: 21	[3000/8000 (38%)]	Loss: 0.454661
248	Train Epoch: 21	[4000/8000 (50%)]	Loss: 0.378041
249	Train Epoch: 21	[5000/8000 (62%)]	Loss: 0.500366
250	Train Epoch: 21	[6000/8000 (75%)]	Loss: 0.420214
251	Train Epoch: 21	[7000/8000 (88%)]	Loss: 0.450945
252			
253	Test set:	Avg. loss: 0.2184, Accuracy: 1884/2000 (94.200%)	
254			
255	New best test_loss:	0.21835383772850037!	
256	Train Epoch: 22	[0/8000 (0%)]	Loss: 0.311053
257	Train Epoch: 22	[1000/8000 (12%)]	Loss: 0.416485
258	Train Epoch: 22	[2000/8000 (25%)]	Loss: 0.443679
259	Train Epoch: 22	[3000/8000 (38%)]	Loss: 0.514871
260	Train Epoch: 22	[4000/8000 (50%)]	Loss: 0.476714
261	Train Epoch: 22	[5000/8000 (62%)]	Loss: 0.433976

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262 Train Epoch: 22 [6000/8000 (75%)] Loss: 0.468546
263 Train Epoch: 22 [7000/8000 (88%)] Loss: 0.565638
264
265 Test set: Avg. loss: 0.2108, Accuracy: 1886/2000 (94
.300%)
266
267 New best test_loss: 0.21077774465084076!
268 Train Epoch: 23 [0/8000 (0%)] Loss: 0.359599
269 Train Epoch: 23 [1000/8000 (12%)] Loss: 0.325270
270 Train Epoch: 23 [2000/8000 (25%)] Loss: 0.541798
271 Train Epoch: 23 [3000/8000 (38%)] Loss: 0.422088
272 Train Epoch: 23 [4000/8000 (50%)] Loss: 0.554291
273 Train Epoch: 23 [5000/8000 (62%)] Loss: 0.613193
274 Train Epoch: 23 [6000/8000 (75%)] Loss: 0.502921
275 Train Epoch: 23 [7000/8000 (88%)] Loss: 0.426077
276
277 Test set: Avg. loss: 0.2108, Accuracy: 1878/2000 (93
.900%)
278
279 Train Epoch: 24 [0/8000 (0%)] Loss: 0.308190
280 Train Epoch: 24 [1000/8000 (12%)] Loss: 0.314295
281 Train Epoch: 24 [2000/8000 (25%)] Loss: 0.355794
282 Train Epoch: 24 [3000/8000 (38%)] Loss: 0.413865
283 Train Epoch: 24 [4000/8000 (50%)] Loss: 0.518031
284 Train Epoch: 24 [5000/8000 (62%)] Loss: 0.629298
285 Train Epoch: 24 [6000/8000 (75%)] Loss: 0.393362
286 Train Epoch: 24 [7000/8000 (88%)] Loss: 0.438454
287
288 Test set: Avg. loss: 0.2039, Accuracy: 1883/2000 (94
.150%)
289
290 New best test_loss: 0.2038683444261551!
291 Train Epoch: 25 [0/8000 (0%)] Loss: 0.369261
292 Train Epoch: 25 [1000/8000 (12%)] Loss: 0.341702
293 Train Epoch: 25 [2000/8000 (25%)] Loss: 0.483697
294 Train Epoch: 25 [3000/8000 (38%)] Loss: 0.393919
295 Train Epoch: 25 [4000/8000 (50%)] Loss: 0.442631
296 Train Epoch: 25 [5000/8000 (62%)] Loss: 0.439641
297 Train Epoch: 25 [6000/8000 (75%)] Loss: 0.486753
298 Train Epoch: 25 [7000/8000 (88%)] Loss: 0.403953
299
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300 Test set: Avg. loss: 0.2013, Accuracy: 1887/2000 (94.350%)
301
302 New best test_loss: 0.20131763815879822!
303 Train Epoch: 26 [0/8000 (0%)] Loss: 0.321488
304 Train Epoch: 26 [1000/8000 (12%)] Loss: 0.314367
305 Train Epoch: 26 [2000/8000 (25%)] Loss: 0.300830
306 Train Epoch: 26 [3000/8000 (38%)] Loss: 0.456277
307 Train Epoch: 26 [4000/8000 (50%)] Loss: 0.386286
308 Train Epoch: 26 [5000/8000 (62%)] Loss: 0.468514
309 Train Epoch: 26 [6000/8000 (75%)] Loss: 0.281167
310 Train Epoch: 26 [7000/8000 (88%)] Loss: 0.408860
311
312 Test set: Avg. loss: 0.1910, Accuracy: 1896/2000 (94.800%)
313
314 New best test_loss: 0.19098718464374542!
315 Train Epoch: 27 [0/8000 (0%)] Loss: 0.267355
316 Train Epoch: 27 [1000/8000 (12%)] Loss: 0.345586
317 Train Epoch: 27 [2000/8000 (25%)] Loss: 0.387626
318 Train Epoch: 27 [3000/8000 (38%)] Loss: 0.324000
319 Train Epoch: 27 [4000/8000 (50%)] Loss: 0.332601
320 Train Epoch: 27 [5000/8000 (62%)] Loss: 0.419322
321 Train Epoch: 27 [6000/8000 (75%)] Loss: 0.401796
322 Train Epoch: 27 [7000/8000 (88%)] Loss: 0.379236
323
324 Test set: Avg. loss: 0.1864, Accuracy: 1897/2000 (94.850%)
325
326 New best test_loss: 0.18641817569732666!
327 Train Epoch: 28 [0/8000 (0%)] Loss: 0.311720
328 Train Epoch: 28 [1000/8000 (12%)] Loss: 0.293544
329 Train Epoch: 28 [2000/8000 (25%)] Loss: 0.489027
330 Train Epoch: 28 [3000/8000 (38%)] Loss: 0.496105
331 Train Epoch: 28 [4000/8000 (50%)] Loss: 0.385400
332 Train Epoch: 28 [5000/8000 (62%)] Loss: 0.373525
333 Train Epoch: 28 [6000/8000 (75%)] Loss: 0.372799
334 Train Epoch: 28 [7000/8000 (88%)] Loss: 0.497343
335
336 Test set: Avg. loss: 0.1832, Accuracy: 1894/2000 (94.700%)
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337
338 New best test_loss: 0.18320108950138092!
339 Train Epoch: 29 [0/8000 (0%)] Loss: 0.302614
340 Train Epoch: 29 [1000/8000 (12%)] Loss: 0.283135
341 Train Epoch: 29 [2000/8000 (25%)] Loss: 0.495429
342 Train Epoch: 29 [3000/8000 (38%)] Loss: 0.392869
343 Train Epoch: 29 [4000/8000 (50%)] Loss: 0.418163
344 Train Epoch: 29 [5000/8000 (62%)] Loss: 0.460407
345 Train Epoch: 29 [6000/8000 (75%)] Loss: 0.406049
346 Train Epoch: 29 [7000/8000 (88%)] Loss: 0.533243
347
348 Test set: Avg. loss: 0.1866, Accuracy: 1894/2000 (94
.700%)
349
350 Train Epoch: 30 [0/8000 (0%)] Loss: 0.247146
351 Train Epoch: 30 [1000/8000 (12%)] Loss: 0.288537
352 Train Epoch: 30 [2000/8000 (25%)] Loss: 0.361188
353 Train Epoch: 30 [3000/8000 (38%)] Loss: 0.335567
354 Train Epoch: 30 [4000/8000 (50%)] Loss: 0.348790
355 Train Epoch: 30 [5000/8000 (62%)] Loss: 0.361027
356 Train Epoch: 30 [6000/8000 (75%)] Loss: 0.376619
357 Train Epoch: 30 [7000/8000 (88%)] Loss: 0.365166
358
359 Test set: Avg. loss: 0.1779, Accuracy: 1900/2000 (95
.000%)
360
361 New best test_loss: 0.17794157564640045!
362 Train Epoch: 31 [0/8000 (0%)] Loss: 0.284860
363 Train Epoch: 31 [1000/8000 (12%)] Loss: 0.289066
364 Train Epoch: 31 [2000/8000 (25%)] Loss: 0.354011
365 Train Epoch: 31 [3000/8000 (38%)] Loss: 0.381721
366 Train Epoch: 31 [4000/8000 (50%)] Loss: 0.472784
367 Train Epoch: 31 [5000/8000 (62%)] Loss: 0.433909
368 Train Epoch: 31 [6000/8000 (75%)] Loss: 0.489022
369 Train Epoch: 31 [7000/8000 (88%)] Loss: 0.445673
370
371 Test set: Avg. loss: 0.1726, Accuracy: 1902/2000 (95
.100%)
372
373 New best test_loss: 0.17259511351585388!
374 Train Epoch: 32 [0/8000 (0%)] Loss: 0.237390
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375	Train	Epoch: 32	[1000/8000 (12%)]	Loss: 0.361347
376	Train	Epoch: 32	[2000/8000 (25%)]	Loss: 0.296357
377	Train	Epoch: 32	[3000/8000 (38%)]	Loss: 0.340232
378	Train	Epoch: 32	[4000/8000 (50%)]	Loss: 0.455308
379	Train	Epoch: 32	[5000/8000 (62%)]	Loss: 0.389175
380	Train	Epoch: 32	[6000/8000 (75%)]	Loss: 0.384107
381	Train	Epoch: 32	[7000/8000 (88%)]	Loss: 0.374409
382				
383	Test set:	Avg. loss: 0.1680,	Accuracy: 1909/2000 (95.450%)	
384				
385	New best test_loss: 0.16795256733894348!			
386	Train	Epoch: 33	[0/8000 (0%)]	Loss: 0.170625
387	Train	Epoch: 33	[1000/8000 (12%)]	Loss: 0.313588
388	Train	Epoch: 33	[2000/8000 (25%)]	Loss: 0.329219
389	Train	Epoch: 33	[3000/8000 (38%)]	Loss: 0.434312
390	Train	Epoch: 33	[4000/8000 (50%)]	Loss: 0.393875
391	Train	Epoch: 33	[5000/8000 (62%)]	Loss: 0.396832
392	Train	Epoch: 33	[6000/8000 (75%)]	Loss: 0.251825
393	Train	Epoch: 33	[7000/8000 (88%)]	Loss: 0.363596
394				
395	Test set:	Avg. loss: 0.1695,	Accuracy: 1913/2000 (95.650%)	
396				
397	Train	Epoch: 34	[0/8000 (0%)]	Loss: 0.236123
398	Train	Epoch: 34	[1000/8000 (12%)]	Loss: 0.333173
399	Train	Epoch: 34	[2000/8000 (25%)]	Loss: 0.351256
400	Train	Epoch: 34	[3000/8000 (38%)]	Loss: 0.542457
401	Train	Epoch: 34	[4000/8000 (50%)]	Loss: 0.527929
402	Train	Epoch: 34	[5000/8000 (62%)]	Loss: 0.363532
403	Train	Epoch: 34	[6000/8000 (75%)]	Loss: 0.320383
404	Train	Epoch: 34	[7000/8000 (88%)]	Loss: 0.365247
405				
406	Test set:	Avg. loss: 0.1632,	Accuracy: 1906/2000 (95.300%)	
407				
408	New best test_loss: 0.16320118308067322!			
409	Train	Epoch: 35	[0/8000 (0%)]	Loss: 0.218778
410	Train	Epoch: 35	[1000/8000 (12%)]	Loss: 0.301634
411	Train	Epoch: 35	[2000/8000 (25%)]	Loss: 0.429938
412	Train	Epoch: 35	[3000/8000 (38%)]	Loss: 0.480796

```
413 Train Epoch: 35 [4000/8000 (50%)] Loss: 0.400123
414 Train Epoch: 35 [5000/8000 (62%)] Loss: 0.488610
415 Train Epoch: 35 [6000/8000 (75%)] Loss: 0.349237
416 Train Epoch: 35 [7000/8000 (88%)] Loss: 0.303291
417
418 Test set: Avg. loss: 0.1587, Accuracy: 1912/2000 (95
.600%)
419
420 New best test_loss: 0.15870320796966553!
421 Train Epoch: 36 [0/8000 (0%)] Loss: 0.315183
422 Train Epoch: 36 [1000/8000 (12%)] Loss: 0.254799
423 Train Epoch: 36 [2000/8000 (25%)] Loss: 0.270718
424 Train Epoch: 36 [3000/8000 (38%)] Loss: 0.289186
425 Train Epoch: 36 [4000/8000 (50%)] Loss: 0.280796
426 Train Epoch: 36 [5000/8000 (62%)] Loss: 0.478787
427 Train Epoch: 36 [6000/8000 (75%)] Loss: 0.275964
428 Train Epoch: 36 [7000/8000 (88%)] Loss: 0.367238
429
430 Test set: Avg. loss: 0.1601, Accuracy: 1914/2000 (95
.700%)
431
432 Train Epoch: 37 [0/8000 (0%)] Loss: 0.179425
433 Train Epoch: 37 [1000/8000 (12%)] Loss: 0.246589
434 Train Epoch: 37 [2000/8000 (25%)] Loss: 0.279779
435 Train Epoch: 37 [3000/8000 (38%)] Loss: 0.304798
436 Train Epoch: 37 [4000/8000 (50%)] Loss: 0.430881
437 Train Epoch: 37 [5000/8000 (62%)] Loss: 0.346680
438 Train Epoch: 37 [6000/8000 (75%)] Loss: 0.262356
439 Train Epoch: 37 [7000/8000 (88%)] Loss: 0.325750
440
441 Test set: Avg. loss: 0.1585, Accuracy: 1914/2000 (95
.700%)
442
443 New best test_loss: 0.1585109978914261!
444 Train Epoch: 38 [0/8000 (0%)] Loss: 0.284342
445 Train Epoch: 38 [1000/8000 (12%)] Loss: 0.221242
446 Train Epoch: 38 [2000/8000 (25%)] Loss: 0.246203
447 Train Epoch: 38 [3000/8000 (38%)] Loss: 0.233993
448 Train Epoch: 38 [4000/8000 (50%)] Loss: 0.417784
449 Train Epoch: 38 [5000/8000 (62%)] Loss: 0.432603
450 Train Epoch: 38 [6000/8000 (75%)] Loss: 0.158097
```

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451 Train Epoch: 38 [7000/8000 (88%)] Loss: 0.417125
452
453 Test set: Avg. loss: 0.1539, Accuracy: 1916/2000 (95
.800%)
454
455 New best test_loss: 0.15387830138206482!
456 Train Epoch: 39 [0/8000 (0%)] Loss: 0.308024
457 Train Epoch: 39 [1000/8000 (12%)] Loss: 0.339605
458 Train Epoch: 39 [2000/8000 (25%)] Loss: 0.398229
459 Train Epoch: 39 [3000/8000 (38%)] Loss: 0.277009
460 Train Epoch: 39 [4000/8000 (50%)] Loss: 0.411418
461 Train Epoch: 39 [5000/8000 (62%)] Loss: 0.348963
462 Train Epoch: 39 [6000/8000 (75%)] Loss: 0.359962
463 Train Epoch: 39 [7000/8000 (88%)] Loss: 0.313469
464
465 Test set: Avg. loss: 0.1544, Accuracy: 1916/2000 (95
.800%)
466
467 Train Epoch: 40 [0/8000 (0%)] Loss: 0.231880
468 Train Epoch: 40 [1000/8000 (12%)] Loss: 0.292821
469 Train Epoch: 40 [2000/8000 (25%)] Loss: 0.280741
470 Train Epoch: 40 [3000/8000 (38%)] Loss: 0.386912
471 Train Epoch: 40 [4000/8000 (50%)] Loss: 0.336406
472 Train Epoch: 40 [5000/8000 (62%)] Loss: 0.355896
473 Train Epoch: 40 [6000/8000 (75%)] Loss: 0.270199
474 Train Epoch: 40 [7000/8000 (88%)] Loss: 0.366517
475
476 Test set: Avg. loss: 0.1500, Accuracy: 1919/2000 (95
.950%)
477
478 New best test_loss: 0.14999926090240479!
479 Train Epoch: 41 [0/8000 (0%)] Loss: 0.234105
480 Train Epoch: 41 [1000/8000 (12%)] Loss: 0.220615
481 Train Epoch: 41 [2000/8000 (25%)] Loss: 0.295854
482 Train Epoch: 41 [3000/8000 (38%)] Loss: 0.279213
483 Train Epoch: 41 [4000/8000 (50%)] Loss: 0.405427
484 Train Epoch: 41 [5000/8000 (62%)] Loss: 0.447509
485 Train Epoch: 41 [6000/8000 (75%)] Loss: 0.323200
486 Train Epoch: 41 [7000/8000 (88%)] Loss: 0.339096
487
488 Test set: Avg. loss: 0.1474, Accuracy: 1924/2000 (96
```

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488 .200%)  
489  
490 New best test_loss: 0.14737407863140106!  
491 Train Epoch: 42 [0/8000 (0%)] Loss: 0.231687  
492 Train Epoch: 42 [1000/8000 (12%)] Loss: 0.245093  
493 Train Epoch: 42 [2000/8000 (25%)] Loss: 0.303342  
494 Train Epoch: 42 [3000/8000 (38%)] Loss: 0.284348  
495 Train Epoch: 42 [4000/8000 (50%)] Loss: 0.298558  
496 Train Epoch: 42 [5000/8000 (62%)] Loss: 0.387106  
497 Train Epoch: 42 [6000/8000 (75%)] Loss: 0.284731  
498 Train Epoch: 42 [7000/8000 (88%)] Loss: 0.409913  
499  
500 Test set: Avg. loss: 0.1443, Accuracy: 1917/2000 (95  
.850%)  
501  
502 New best test_loss: 0.14429788291454315!  
503 Train Epoch: 43 [0/8000 (0%)] Loss: 0.224096  
504 Train Epoch: 43 [1000/8000 (12%)] Loss: 0.246360  
505 Train Epoch: 43 [2000/8000 (25%)] Loss: 0.342170  
506 Train Epoch: 43 [3000/8000 (38%)] Loss: 0.294565  
507 Train Epoch: 43 [4000/8000 (50%)] Loss: 0.337802  
508 Train Epoch: 43 [5000/8000 (62%)] Loss: 0.385475  
509 Train Epoch: 43 [6000/8000 (75%)] Loss: 0.250986  
510 Train Epoch: 43 [7000/8000 (88%)] Loss: 0.355401  
511  
512 Test set: Avg. loss: 0.1416, Accuracy: 1919/2000 (95  
.950%)  
513  
514 New best test_loss: 0.14158616960048676!  
515 Train Epoch: 44 [0/8000 (0%)] Loss: 0.285013  
516 Train Epoch: 44 [1000/8000 (12%)] Loss: 0.250690  
517 Train Epoch: 44 [2000/8000 (25%)] Loss: 0.350552  
518 Train Epoch: 44 [3000/8000 (38%)] Loss: 0.352037  
519 Train Epoch: 44 [4000/8000 (50%)] Loss: 0.290046  
520 Train Epoch: 44 [5000/8000 (62%)] Loss: 0.286404  
521 Train Epoch: 44 [6000/8000 (75%)] Loss: 0.200149  
522 Train Epoch: 44 [7000/8000 (88%)] Loss: 0.285477  
523  
524 Test set: Avg. loss: 0.1420, Accuracy: 1922/2000 (96  
.100%)  
525
```

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526 Train Epoch: 45 [0/8000 (0%)] Loss: 0.236770
527 Train Epoch: 45 [1000/8000 (12%)] Loss: 0.258963
528 Train Epoch: 45 [2000/8000 (25%)] Loss: 0.234766
529 Train Epoch: 45 [3000/8000 (38%)] Loss: 0.291428
530 Train Epoch: 45 [4000/8000 (50%)] Loss: 0.296983
531 Train Epoch: 45 [5000/8000 (62%)] Loss: 0.467156
532 Train Epoch: 45 [6000/8000 (75%)] Loss: 0.327567
533 Train Epoch: 45 [7000/8000 (88%)] Loss: 0.303515
534
535 Test set: Avg. loss: 0.1415, Accuracy: 1919/2000 (95
.950%)
536
537 New best test_loss: 0.14147834479808807!
538 Train Epoch: 46 [0/8000 (0%)] Loss: 0.149799
539 Train Epoch: 46 [1000/8000 (12%)] Loss: 0.257184
540 Train Epoch: 46 [2000/8000 (25%)] Loss: 0.332365
541 Train Epoch: 46 [3000/8000 (38%)] Loss: 0.341654
542 Train Epoch: 46 [4000/8000 (50%)] Loss: 0.252915
543 Train Epoch: 46 [5000/8000 (62%)] Loss: 0.421264
544 Train Epoch: 46 [6000/8000 (75%)] Loss: 0.239951
545 Train Epoch: 46 [7000/8000 (88%)] Loss: 0.315057
546
547 Test set: Avg. loss: 0.1416, Accuracy: 1918/2000 (95
.900%)
548
549 Train Epoch: 47 [0/8000 (0%)] Loss: 0.312492
550 Train Epoch: 47 [1000/8000 (12%)] Loss: 0.198289
551 Train Epoch: 47 [2000/8000 (25%)] Loss: 0.354559
552 Train Epoch: 47 [3000/8000 (38%)] Loss: 0.243127
553 Train Epoch: 47 [4000/8000 (50%)] Loss: 0.312982
554 Train Epoch: 47 [5000/8000 (62%)] Loss: 0.332653
555 Train Epoch: 47 [6000/8000 (75%)] Loss: 0.188077
556 Train Epoch: 47 [7000/8000 (88%)] Loss: 0.486732
557
558 Test set: Avg. loss: 0.1396, Accuracy: 1921/2000 (96
.050%)
559
560 New best test_loss: 0.13957785069942474!
561 Train Epoch: 48 [0/8000 (0%)] Loss: 0.201738
562 Train Epoch: 48 [1000/8000 (12%)] Loss: 0.231683
563 Train Epoch: 48 [2000/8000 (25%)] Loss: 0.365709
```

564	Train	Epoch: 48	[3000/8000 (38%)]	Loss: 0.312243
565	Train	Epoch: 48	[4000/8000 (50%)]	Loss: 0.347357
566	Train	Epoch: 48	[5000/8000 (62%)]	Loss: 0.289265
567	Train	Epoch: 48	[6000/8000 (75%)]	Loss: 0.294688
568	Train	Epoch: 48	[7000/8000 (88%)]	Loss: 0.330620
569				
570	Test set:	Avg. loss: 0.1316,	Accuracy: 1926/2000 (96.300%)	
571				
572	New best test_loss:	0.13159504532814026!		
573	Train	Epoch: 49	[0/8000 (0%)]	Loss: 0.238077
574	Train	Epoch: 49	[1000/8000 (12%)]	Loss: 0.208110
575	Train	Epoch: 49	[2000/8000 (25%)]	Loss: 0.316273
576	Train	Epoch: 49	[3000/8000 (38%)]	Loss: 0.282472
577	Train	Epoch: 49	[4000/8000 (50%)]	Loss: 0.305954
578	Train	Epoch: 49	[5000/8000 (62%)]	Loss: 0.265642
579	Train	Epoch: 49	[6000/8000 (75%)]	Loss: 0.294505
580	Train	Epoch: 49	[7000/8000 (88%)]	Loss: 0.295179
581				
582	Test set:	Avg. loss: 0.1372,	Accuracy: 1926/2000 (96.300%)	
583				
584	Train	Epoch: 50	[0/8000 (0%)]	Loss: 0.249826
585	Train	Epoch: 50	[1000/8000 (12%)]	Loss: 0.309400
586	Train	Epoch: 50	[2000/8000 (25%)]	Loss: 0.346324
587	Train	Epoch: 50	[3000/8000 (38%)]	Loss: 0.311871
588	Train	Epoch: 50	[4000/8000 (50%)]	Loss: 0.413009
589	Train	Epoch: 50	[5000/8000 (62%)]	Loss: 0.288302
590	Train	Epoch: 50	[6000/8000 (75%)]	Loss: 0.373013
591	Train	Epoch: 50	[7000/8000 (88%)]	Loss: 0.319844
592				
593	Test set:	Avg. loss: 0.1383,	Accuracy: 1926/2000 (96.300%)	
594				
595	Train	Epoch: 51	[0/8000 (0%)]	Loss: 0.205412
596	Train	Epoch: 51	[1000/8000 (12%)]	Loss: 0.232658
597	Train	Epoch: 51	[2000/8000 (25%)]	Loss: 0.224866
598	Train	Epoch: 51	[3000/8000 (38%)]	Loss: 0.255782
599	Train	Epoch: 51	[4000/8000 (50%)]	Loss: 0.362871
600	Train	Epoch: 51	[5000/8000 (62%)]	Loss: 0.370490
601	Train	Epoch: 51	[6000/8000 (75%)]	Loss: 0.333120

```
602 Train Epoch: 51 [7000/8000 (88%)] Loss: 0.296074
603
604 Test set: Avg. loss: 0.1357, Accuracy: 1925/2000 (96
.250%)
605
606 Train Epoch: 52 [0/8000 (0%)] Loss: 0.242741
607 Train Epoch: 52 [1000/8000 (12%)] Loss: 0.216083
608 Train Epoch: 52 [2000/8000 (25%)] Loss: 0.244759
609 Train Epoch: 52 [3000/8000 (38%)] Loss: 0.246460
610 Train Epoch: 52 [4000/8000 (50%)] Loss: 0.242513
611 Train Epoch: 52 [5000/8000 (62%)] Loss: 0.411117
612 Train Epoch: 52 [6000/8000 (75%)] Loss: 0.323320
613 Train Epoch: 52 [7000/8000 (88%)] Loss: 0.340552
614
615 Test set: Avg. loss: 0.1322, Accuracy: 1927/2000 (96
.350%)
616
617 Train Epoch: 53 [0/8000 (0%)] Loss: 0.199196
618 Train Epoch: 53 [1000/8000 (12%)] Loss: 0.243303
619 Train Epoch: 53 [2000/8000 (25%)] Loss: 0.311925
620 Train Epoch: 53 [3000/8000 (38%)] Loss: 0.340229
621 Train Epoch: 53 [4000/8000 (50%)] Loss: 0.380581
622 Train Epoch: 53 [5000/8000 (62%)] Loss: 0.376769
623 Train Epoch: 53 [6000/8000 (75%)] Loss: 0.248853
624 Train Epoch: 53 [7000/8000 (88%)] Loss: 0.322877
625
626 Test set: Avg. loss: 0.1332, Accuracy: 1921/2000 (96
.050%)
627
628 Patience exceeded, concluding training after epoch
53
629 Train Epoch: 1 [0/8000 (0%)] Loss: 2.304866
630 Train Epoch: 1 [1000/8000 (12%)] Loss: 2.304119
631 Train Epoch: 1 [2000/8000 (25%)] Loss: 2.291047
632 Train Epoch: 1 [3000/8000 (38%)] Loss: 2.307430
633 Train Epoch: 1 [4000/8000 (50%)] Loss: 2.302956
634 Train Epoch: 1 [5000/8000 (62%)] Loss: 2.299123
635 Train Epoch: 1 [6000/8000 (75%)] Loss: 2.310507
636 Train Epoch: 1 [7000/8000 (88%)] Loss: 2.298415
637
638 Test set: Avg. loss: 2.3000, Accuracy: 216/2000 (10.
```

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638 800%)  
639  
640 New best test_loss: 2.29998779296875!  
641 Train Epoch: 2 [0/8000 (0%)] Loss: 2.305329  
642 Train Epoch: 2 [1000/8000 (12%)] Loss: 2.296539  
643 Train Epoch: 2 [2000/8000 (25%)] Loss: 2.296493  
644 Train Epoch: 2 [3000/8000 (38%)] Loss: 2.302384  
645 Train Epoch: 2 [4000/8000 (50%)] Loss: 2.303913  
646 Train Epoch: 2 [5000/8000 (62%)] Loss: 2.296285  
647 Train Epoch: 2 [6000/8000 (75%)] Loss: 2.310675  
648 Train Epoch: 2 [7000/8000 (88%)] Loss: 2.295751  
649  
650 Test set: Avg. loss: 2.2992, Accuracy: 216/2000 (10.  
800%)  
651  
652 New best test_loss: 2.2992186546325684!  
653 Train Epoch: 3 [0/8000 (0%)] Loss: 2.294964  
654 Train Epoch: 3 [1000/8000 (12%)] Loss: 2.298096  
655 Train Epoch: 3 [2000/8000 (25%)] Loss: 2.291538  
656 Train Epoch: 3 [3000/8000 (38%)] Loss: 2.295697  
657 Train Epoch: 3 [4000/8000 (50%)] Loss: 2.303492  
658 Train Epoch: 3 [5000/8000 (62%)] Loss: 2.301080  
659 Train Epoch: 3 [6000/8000 (75%)] Loss: 2.314367  
660 Train Epoch: 3 [7000/8000 (88%)] Loss: 2.299466  
661  
662 Test set: Avg. loss: 2.2984, Accuracy: 216/2000 (10.  
800%)  
663  
664 New best test_loss: 2.2983531951904297!  
665 Train Epoch: 4 [0/8000 (0%)] Loss: 2.298033  
666 Train Epoch: 4 [1000/8000 (12%)] Loss: 2.295526  
667 Train Epoch: 4 [2000/8000 (25%)] Loss: 2.292055  
668 Train Epoch: 4 [3000/8000 (38%)] Loss: 2.298060  
669 Train Epoch: 4 [4000/8000 (50%)] Loss: 2.301640  
670 Train Epoch: 4 [5000/8000 (62%)] Loss: 2.285747  
671 Train Epoch: 4 [6000/8000 (75%)] Loss: 2.305671  
672 Train Epoch: 4 [7000/8000 (88%)] Loss: 2.300723  
673  
674 Test set: Avg. loss: 2.2976, Accuracy: 216/2000 (10.  
800%)  
675
```

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676 New best test_loss: 2.297607183456421!
677 Train Epoch: 5 [0/8000 (0%)] Loss: 2.292146
678 Train Epoch: 5 [1000/8000 (12%)] Loss: 2.297128
679 Train Epoch: 5 [2000/8000 (25%)] Loss: 2.292239
680 Train Epoch: 5 [3000/8000 (38%)] Loss: 2.295479
681 Train Epoch: 5 [4000/8000 (50%)] Loss: 2.292099
682 Train Epoch: 5 [5000/8000 (62%)] Loss: 2.298775
683 Train Epoch: 5 [6000/8000 (75%)] Loss: 2.310651
684 Train Epoch: 5 [7000/8000 (88%)] Loss: 2.292275
685
686 Test set: Avg. loss: 2.2964, Accuracy: 216/2000 (10.800%)
687
688 New best test_loss: 2.296377420425415!
689 Train Epoch: 6 [0/8000 (0%)] Loss: 2.294966
690 Train Epoch: 6 [1000/8000 (12%)] Loss: 2.302294
691 Train Epoch: 6 [2000/8000 (25%)] Loss: 2.296291
692 Train Epoch: 6 [3000/8000 (38%)] Loss: 2.294597
693 Train Epoch: 6 [4000/8000 (50%)] Loss: 2.286874
694 Train Epoch: 6 [5000/8000 (62%)] Loss: 2.284352
695 Train Epoch: 6 [6000/8000 (75%)] Loss: 2.309410
696 Train Epoch: 6 [7000/8000 (88%)] Loss: 2.303217
697
698 Test set: Avg. loss: 2.2951, Accuracy: 216/2000 (10.800%)
699
700 New best test_loss: 2.295118570327759!
701 Train Epoch: 7 [0/8000 (0%)] Loss: 2.293326
702 Train Epoch: 7 [1000/8000 (12%)] Loss: 2.296957
703 Train Epoch: 7 [2000/8000 (25%)] Loss: 2.289070
704 Train Epoch: 7 [3000/8000 (38%)] Loss: 2.297111
705 Train Epoch: 7 [4000/8000 (50%)] Loss: 2.293494
706 Train Epoch: 7 [5000/8000 (62%)] Loss: 2.291540
707 Train Epoch: 7 [6000/8000 (75%)] Loss: 2.303166
708 Train Epoch: 7 [7000/8000 (88%)] Loss: 2.296972
709
710 Test set: Avg. loss: 2.2933, Accuracy: 216/2000 (10.800%)
711
712 New best test_loss: 2.2932956218719482!
713 Train Epoch: 8 [0/8000 (0%)] Loss: 2.286518
```

714	Train Epoch: 8	[1000/8000 (12%)]	Loss: 2.283267
715	Train Epoch: 8	[2000/8000 (25%)]	Loss: 2.291825
716	Train Epoch: 8	[3000/8000 (38%)]	Loss: 2.288127
717	Train Epoch: 8	[4000/8000 (50%)]	Loss: 2.289318
718	Train Epoch: 8	[5000/8000 (62%)]	Loss: 2.291685
719	Train Epoch: 8	[6000/8000 (75%)]	Loss: 2.305888
720	Train Epoch: 8	[7000/8000 (88%)]	Loss: 2.297482
721			
722	Test set:	Avg. loss: 2.2914, Accuracy: 216/2000 (10.800%)	
723			
724	New best test_loss:	2.2914164066314697!	
725	Train Epoch: 9	[0/8000 (0%)]	Loss: 2.292389
726	Train Epoch: 9	[1000/8000 (12%)]	Loss: 2.294837
727	Train Epoch: 9	[2000/8000 (25%)]	Loss: 2.292230
728	Train Epoch: 9	[3000/8000 (38%)]	Loss: 2.297057
729	Train Epoch: 9	[4000/8000 (50%)]	Loss: 2.286419
730	Train Epoch: 9	[5000/8000 (62%)]	Loss: 2.280576
731	Train Epoch: 9	[6000/8000 (75%)]	Loss: 2.299675
732	Train Epoch: 9	[7000/8000 (88%)]	Loss: 2.291796
733			
734	Test set:	Avg. loss: 2.2894, Accuracy: 216/2000 (10.800%)	
735			
736	New best test_loss:	2.2893998622894287!	
737	Train Epoch: 10	[0/8000 (0%)]	Loss: 2.285873
738	Train Epoch: 10	[1000/8000 (12%)]	Loss: 2.286752
739	Train Epoch: 10	[2000/8000 (25%)]	Loss: 2.292654
740	Train Epoch: 10	[3000/8000 (38%)]	Loss: 2.282107
741	Train Epoch: 10	[4000/8000 (50%)]	Loss: 2.292105
742	Train Epoch: 10	[5000/8000 (62%)]	Loss: 2.280673
743	Train Epoch: 10	[6000/8000 (75%)]	Loss: 2.303719
744	Train Epoch: 10	[7000/8000 (88%)]	Loss: 2.283738
745			
746	Test set:	Avg. loss: 2.2860, Accuracy: 216/2000 (10.800%)	
747			
748	New best test_loss:	2.285961151123047!	
749	Train Epoch: 11	[0/8000 (0%)]	Loss: 2.289608
750	Train Epoch: 11	[1000/8000 (12%)]	Loss: 2.292424
751	Train Epoch: 11	[2000/8000 (25%)]	Loss: 2.284032

752	Train Epoch: 11	[3000/8000 (38%)]	Loss: 2.283801
753	Train Epoch: 11	[4000/8000 (50%)]	Loss: 2.287043
754	Train Epoch: 11	[5000/8000 (62%)]	Loss: 2.265502
755	Train Epoch: 11	[6000/8000 (75%)]	Loss: 2.296348
756	Train Epoch: 11	[7000/8000 (88%)]	Loss: 2.291406
757			
758	Test set:	Avg. loss: 2.2821, Accuracy: 284/2000 (14.200%)	
759			
760	New best test_loss:	2.2821407318115234!	
761	Train Epoch: 12	[0/8000 (0%)]	Loss: 2.289988
762	Train Epoch: 12	[1000/8000 (12%)]	Loss: 2.286576
763	Train Epoch: 12	[2000/8000 (25%)]	Loss: 2.279363
764	Train Epoch: 12	[3000/8000 (38%)]	Loss: 2.285588
765	Train Epoch: 12	[4000/8000 (50%)]	Loss: 2.298464
766	Train Epoch: 12	[5000/8000 (62%)]	Loss: 2.280137
767	Train Epoch: 12	[6000/8000 (75%)]	Loss: 2.287442
768	Train Epoch: 12	[7000/8000 (88%)]	Loss: 2.286310
769			
770	Test set:	Avg. loss: 2.2765, Accuracy: 328/2000 (16.400%)	
771			
772	New best test_loss:	2.276498317718506!	
773	Train Epoch: 13	[0/8000 (0%)]	Loss: 2.275649
774	Train Epoch: 13	[1000/8000 (12%)]	Loss: 2.273914
775	Train Epoch: 13	[2000/8000 (25%)]	Loss: 2.272110
776	Train Epoch: 13	[3000/8000 (38%)]	Loss: 2.282428
777	Train Epoch: 13	[4000/8000 (50%)]	Loss: 2.286833
778	Train Epoch: 13	[5000/8000 (62%)]	Loss: 2.273259
779	Train Epoch: 13	[6000/8000 (75%)]	Loss: 2.281322
780	Train Epoch: 13	[7000/8000 (88%)]	Loss: 2.267173
781			
782	Test set:	Avg. loss: 2.2680, Accuracy: 354/2000 (17.700%)	
783			
784	New best test_loss:	2.2680346965789795!	
785	Train Epoch: 14	[0/8000 (0%)]	Loss: 2.261947
786	Train Epoch: 14	[1000/8000 (12%)]	Loss: 2.272392
787	Train Epoch: 14	[2000/8000 (25%)]	Loss: 2.275326
788	Train Epoch: 14	[3000/8000 (38%)]	Loss: 2.275227
789	Train Epoch: 14	[4000/8000 (50%)]	Loss: 2.274056

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790 Train Epoch: 14 [5000/8000 (62%)] Loss: 2.274560
791 Train Epoch: 14 [6000/8000 (75%)] Loss: 2.261044
792 Train Epoch: 14 [7000/8000 (88%)] Loss: 2.273073
793
794 Test set: Avg. loss: 2.2564, Accuracy: 395/2000 (19.
    750%)
795
796 New best test_loss: 2.256373405456543!
797 Train Epoch: 15 [0/8000 (0%)] Loss: 2.260235
798 Train Epoch: 15 [1000/8000 (12%)] Loss: 2.257381
799 Train Epoch: 15 [2000/8000 (25%)] Loss: 2.260037
800 Train Epoch: 15 [3000/8000 (38%)] Loss: 2.269346
801 Train Epoch: 15 [4000/8000 (50%)] Loss: 2.251756
802 Train Epoch: 15 [5000/8000 (62%)] Loss: 2.226878
803 Train Epoch: 15 [6000/8000 (75%)] Loss: 2.252295
804 Train Epoch: 15 [7000/8000 (88%)] Loss: 2.264632
805
806 Test set: Avg. loss: 2.2332, Accuracy: 445/2000 (22.
    250%)
807
808 New best test_loss: 2.2332422733306885!
809 Train Epoch: 16 [0/8000 (0%)] Loss: 2.223278
810 Train Epoch: 16 [1000/8000 (12%)] Loss: 2.229405
811 Train Epoch: 16 [2000/8000 (25%)] Loss: 2.221156
812 Train Epoch: 16 [3000/8000 (38%)] Loss: 2.244551
813 Train Epoch: 16 [4000/8000 (50%)] Loss: 2.247236
814 Train Epoch: 16 [5000/8000 (62%)] Loss: 2.219926
815 Train Epoch: 16 [6000/8000 (75%)] Loss: 2.244102
816 Train Epoch: 16 [7000/8000 (88%)] Loss: 2.227140
817
818 Test set: Avg. loss: 2.1983, Accuracy: 502/2000 (25.
    100%)
819
820 New best test_loss: 2.1982972621917725!
821 Train Epoch: 17 [0/8000 (0%)] Loss: 2.197739
822 Train Epoch: 17 [1000/8000 (12%)] Loss: 2.190900
823 Train Epoch: 17 [2000/8000 (25%)] Loss: 2.168685
824 Train Epoch: 17 [3000/8000 (38%)] Loss: 2.212612
825 Train Epoch: 17 [4000/8000 (50%)] Loss: 2.194778
826 Train Epoch: 17 [5000/8000 (62%)] Loss: 2.148247
827 Train Epoch: 17 [6000/8000 (75%)] Loss: 2.198484
```

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828 Train Epoch: 17 [7000/8000 (88%)] Loss: 2.175717
829
830 Test set: Avg. loss: 2.1345, Accuracy: 579/2000 (28.
950%)
831
832 New best test_loss: 2.134495496749878!
833 Train Epoch: 18 [0/8000 (0%)] Loss: 2.146332
834 Train Epoch: 18 [1000/8000 (12%)] Loss: 2.141809
835 Train Epoch: 18 [2000/8000 (25%)] Loss: 2.139418
836 Train Epoch: 18 [3000/8000 (38%)] Loss: 2.135863
837 Train Epoch: 18 [4000/8000 (50%)] Loss: 2.142688
838 Train Epoch: 18 [5000/8000 (62%)] Loss: 2.076807
839 Train Epoch: 18 [6000/8000 (75%)] Loss: 2.069237
840 Train Epoch: 18 [7000/8000 (88%)] Loss: 2.107437
841
842 Test set: Avg. loss: 2.0420, Accuracy: 613/2000 (30.
650%)
843
844 New best test_loss: 2.0420010089874268!
845 Train Epoch: 19 [0/8000 (0%)] Loss: 2.072554
846 Train Epoch: 19 [1000/8000 (12%)] Loss: 2.101973
847 Train Epoch: 19 [2000/8000 (25%)] Loss: 2.044379
848 Train Epoch: 19 [3000/8000 (38%)] Loss: 2.085634
849 Train Epoch: 19 [4000/8000 (50%)] Loss: 2.078288
850 Train Epoch: 19 [5000/8000 (62%)] Loss: 2.059936
851 Train Epoch: 19 [6000/8000 (75%)] Loss: 2.098019
852 Train Epoch: 19 [7000/8000 (88%)] Loss: 2.008838
853
854 Test set: Avg. loss: 1.9523, Accuracy: 720/2000 (36.
000%)
855
856 New best test_loss: 1.9522582292556763!
857 Train Epoch: 20 [0/8000 (0%)] Loss: 1.941722
858 Train Epoch: 20 [1000/8000 (12%)] Loss: 2.007081
859 Train Epoch: 20 [2000/8000 (25%)] Loss: 2.000534
860 Train Epoch: 20 [3000/8000 (38%)] Loss: 1.970227
861 Train Epoch: 20 [4000/8000 (50%)] Loss: 1.995698
862 Train Epoch: 20 [5000/8000 (62%)] Loss: 1.957342
863 Train Epoch: 20 [6000/8000 (75%)] Loss: 1.964164
864 Train Epoch: 20 [7000/8000 (88%)] Loss: 2.001149
865
```

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866 Test set: Avg. loss: 1.8504, Accuracy: 906/2000 (45.  
300%)  
867  
868 New best test_loss: 1.8504101037979126!  
869 Train Epoch: 21 [0/8000 (0%)] Loss: 1.890916  
870 Train Epoch: 21 [1000/8000 (12%)] Loss: 1.855327  
871 Train Epoch: 21 [2000/8000 (25%)] Loss: 1.907248  
872 Train Epoch: 21 [3000/8000 (38%)] Loss: 1.879279  
873 Train Epoch: 21 [4000/8000 (50%)] Loss: 1.937978  
874 Train Epoch: 21 [5000/8000 (62%)] Loss: 1.857813  
875 Train Epoch: 21 [6000/8000 (75%)] Loss: 1.891906  
876 Train Epoch: 21 [7000/8000 (88%)] Loss: 1.983619  
877  
878 Test set: Avg. loss: 1.7677, Accuracy: 877/2000 (43.  
850%)  
879  
880 New best test_loss: 1.767675518989563!  
881 Train Epoch: 22 [0/8000 (0%)] Loss: 1.833361  
882 Train Epoch: 22 [1000/8000 (12%)] Loss: 1.831893  
883 Train Epoch: 22 [2000/8000 (25%)] Loss: 1.809517  
884 Train Epoch: 22 [3000/8000 (38%)] Loss: 1.905539  
885 Train Epoch: 22 [4000/8000 (50%)] Loss: 1.887832  
886 Train Epoch: 22 [5000/8000 (62%)] Loss: 1.822654  
887 Train Epoch: 22 [6000/8000 (75%)] Loss: 1.809605  
888 Train Epoch: 22 [7000/8000 (88%)] Loss: 1.833500  
889  
890 Test set: Avg. loss: 1.6391, Accuracy: 1028/2000 (51.  
.400%)  
891  
892 New best test_loss: 1.639119029045105!  
893 Train Epoch: 23 [0/8000 (0%)] Loss: 1.633882  
894 Train Epoch: 23 [1000/8000 (12%)] Loss: 1.748537  
895 Train Epoch: 23 [2000/8000 (25%)] Loss: 1.747924  
896 Train Epoch: 23 [3000/8000 (38%)] Loss: 1.763608  
897 Train Epoch: 23 [4000/8000 (50%)] Loss: 1.737752  
898 Train Epoch: 23 [5000/8000 (62%)] Loss: 1.663146  
899 Train Epoch: 23 [6000/8000 (75%)] Loss: 1.661377  
900 Train Epoch: 23 [7000/8000 (88%)] Loss: 1.731449  
901  
902 Test set: Avg. loss: 1.5241, Accuracy: 1105/2000 (55.  
.250%)
```

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903
904 New best test_loss: 1.52411687374115!
905 Train Epoch: 24 [0/8000 (0%)] Loss: 1.684862
906 Train Epoch: 24 [1000/8000 (12%)] Loss: 1.652795
907 Train Epoch: 24 [2000/8000 (25%)] Loss: 1.485389
908 Train Epoch: 24 [3000/8000 (38%)] Loss: 1.619921
909 Train Epoch: 24 [4000/8000 (50%)] Loss: 1.622020
910 Train Epoch: 24 [5000/8000 (62%)] Loss: 1.649978
911 Train Epoch: 24 [6000/8000 (75%)] Loss: 1.641180
912 Train Epoch: 24 [7000/8000 (88%)] Loss: 1.618424
913
914 Test set: Avg. loss: 1.3811, Accuracy: 1188/2000 (59
.400%)
915
916 New best test_loss: 1.3810935020446777!
917 Train Epoch: 25 [0/8000 (0%)] Loss: 1.612741
918 Train Epoch: 25 [1000/8000 (12%)] Loss: 1.569383
919 Train Epoch: 25 [2000/8000 (25%)] Loss: 1.479825
920 Train Epoch: 25 [3000/8000 (38%)] Loss: 1.625743
921 Train Epoch: 25 [4000/8000 (50%)] Loss: 1.428481
922 Train Epoch: 25 [5000/8000 (62%)] Loss: 1.558145
923 Train Epoch: 25 [6000/8000 (75%)] Loss: 1.482174
924 Train Epoch: 25 [7000/8000 (88%)] Loss: 1.426386
925
926 Test set: Avg. loss: 1.2845, Accuracy: 1245/2000 (62
.250%)
927
928 New best test_loss: 1.2845441102981567!
929 Train Epoch: 26 [0/8000 (0%)] Loss: 1.533391
930 Train Epoch: 26 [1000/8000 (12%)] Loss: 1.373024
931 Train Epoch: 26 [2000/8000 (25%)] Loss: 1.394776
932 Train Epoch: 26 [3000/8000 (38%)] Loss: 1.426302
933 Train Epoch: 26 [4000/8000 (50%)] Loss: 1.444641
934 Train Epoch: 26 [5000/8000 (62%)] Loss: 1.440362
935 Train Epoch: 26 [6000/8000 (75%)] Loss: 1.296982
936 Train Epoch: 26 [7000/8000 (88%)] Loss: 1.492568
937
938 Test set: Avg. loss: 1.1521, Accuracy: 1316/2000 (65
.800%)
939
940 New best test_loss: 1.152125358581543!
```

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941 Train Epoch: 27 [0/8000 (0%)] Loss: 1.530804
942 Train Epoch: 27 [1000/8000 (12%)] Loss: 1.296543
943 Train Epoch: 27 [2000/8000 (25%)] Loss: 1.348013
944 Train Epoch: 27 [3000/8000 (38%)] Loss: 1.440025
945 Train Epoch: 27 [4000/8000 (50%)] Loss: 1.326612
946 Train Epoch: 27 [5000/8000 (62%)] Loss: 1.457010
947 Train Epoch: 27 [6000/8000 (75%)] Loss: 1.394416
948 Train Epoch: 27 [7000/8000 (88%)] Loss: 1.286767
949
950 Test set: Avg. loss: 1.1085, Accuracy: 1330/2000 (66
.500%)
951
952 New best test_loss: 1.1084709167480469!
953 Train Epoch: 28 [0/8000 (0%)] Loss: 1.355404
954 Train Epoch: 28 [1000/8000 (12%)] Loss: 1.338103
955 Train Epoch: 28 [2000/8000 (25%)] Loss: 1.197286
956 Train Epoch: 28 [3000/8000 (38%)] Loss: 1.251542
957 Train Epoch: 28 [4000/8000 (50%)] Loss: 1.315576
958 Train Epoch: 28 [5000/8000 (62%)] Loss: 1.341001
959 Train Epoch: 28 [6000/8000 (75%)] Loss: 1.301142
960 Train Epoch: 28 [7000/8000 (88%)] Loss: 1.382080
961
962 Test set: Avg. loss: 1.0196, Accuracy: 1387/2000 (69
.350%)
963
964 New best test_loss: 1.0196198225021362!
965 Train Epoch: 29 [0/8000 (0%)] Loss: 1.274383
966 Train Epoch: 29 [1000/8000 (12%)] Loss: 1.221965
967 Train Epoch: 29 [2000/8000 (25%)] Loss: 1.137638
968 Train Epoch: 29 [3000/8000 (38%)] Loss: 1.348927
969 Train Epoch: 29 [4000/8000 (50%)] Loss: 1.229359
970 Train Epoch: 29 [5000/8000 (62%)] Loss: 1.302496
971 Train Epoch: 29 [6000/8000 (75%)] Loss: 1.223766
972 Train Epoch: 29 [7000/8000 (88%)] Loss: 1.299696
973
974 Test set: Avg. loss: 0.9781, Accuracy: 1398/2000 (69
.900%)
975
976 New best test_loss: 0.9781426787376404!
977 Train Epoch: 30 [0/8000 (0%)] Loss: 1.114849
978 Train Epoch: 30 [1000/8000 (12%)] Loss: 1.206471
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979	Train Epoch: 30	[2000/8000 (25%)]	Loss: 1.232091
980	Train Epoch: 30	[3000/8000 (38%)]	Loss: 1.282408
981	Train Epoch: 30	[4000/8000 (50%)]	Loss: 1.246652
982	Train Epoch: 30	[5000/8000 (62%)]	Loss: 1.276006
983	Train Epoch: 30	[6000/8000 (75%)]	Loss: 1.140461
984	Train Epoch: 30	[7000/8000 (88%)]	Loss: 1.127984
985			
986	Test set:	Avg. loss: 0.9419, Accuracy: 1438/2000 (71.900%)	
987			
988	New best test_loss: 0.9418990015983582!		
989	Train Epoch: 31	[0/8000 (0%)]	Loss: 1.206176
990	Train Epoch: 31	[1000/8000 (12%)]	Loss: 1.177135
991	Train Epoch: 31	[2000/8000 (25%)]	Loss: 1.166744
992	Train Epoch: 31	[3000/8000 (38%)]	Loss: 1.215507
993	Train Epoch: 31	[4000/8000 (50%)]	Loss: 1.165567
994	Train Epoch: 31	[5000/8000 (62%)]	Loss: 1.204844
995	Train Epoch: 31	[6000/8000 (75%)]	Loss: 1.165115
996	Train Epoch: 31	[7000/8000 (88%)]	Loss: 1.121596
997			
998	Test set:	Avg. loss: 0.9105, Accuracy: 1460/2000 (73.000%)	
999			
1000	New best test_loss: 0.9105431437492371!		
1001	Train Epoch: 32	[0/8000 (0%)]	Loss: 1.111029
1002	Train Epoch: 32	[1000/8000 (12%)]	Loss: 1.115503
1003	Train Epoch: 32	[2000/8000 (25%)]	Loss: 1.217589
1004	Train Epoch: 32	[3000/8000 (38%)]	Loss: 1.190932
1005	Train Epoch: 32	[4000/8000 (50%)]	Loss: 1.246315
1006	Train Epoch: 32	[5000/8000 (62%)]	Loss: 1.313672
1007	Train Epoch: 32	[6000/8000 (75%)]	Loss: 1.258791
1008	Train Epoch: 32	[7000/8000 (88%)]	Loss: 1.098182
1009			
1010	Test set:	Avg. loss: 0.8828, Accuracy: 1496/2000 (74.800%)	
1011			
1012	New best test_loss: 0.8827801942825317!		
1013	Train Epoch: 33	[0/8000 (0%)]	Loss: 1.117753
1014	Train Epoch: 33	[1000/8000 (12%)]	Loss: 1.139981
1015	Train Epoch: 33	[2000/8000 (25%)]	Loss: 1.227698
1016	Train Epoch: 33	[3000/8000 (38%)]	Loss: 1.180017

1017	Train Epoch: 33	[4000/8000 (50%)]	Loss: 1.201158
1018	Train Epoch: 33	[5000/8000 (62%)]	Loss: 1.249833
1019	Train Epoch: 33	[6000/8000 (75%)]	Loss: 1.107357
1020	Train Epoch: 33	[7000/8000 (88%)]	Loss: 1.135651
1021			
1022	Test set:	Avg. loss: 0.8519, Accuracy: 1515/2000 (75.750%)	
1023			
1024	New best test_loss:	0.8518738150596619!	
1025	Train Epoch: 34	[0/8000 (0%)]	Loss: 1.053452
1026	Train Epoch: 34	[1000/8000 (12%)]	Loss: 0.976719
1027	Train Epoch: 34	[2000/8000 (25%)]	Loss: 1.068549
1028	Train Epoch: 34	[3000/8000 (38%)]	Loss: 1.203521
1029	Train Epoch: 34	[4000/8000 (50%)]	Loss: 1.200483
1030	Train Epoch: 34	[5000/8000 (62%)]	Loss: 1.216295
1031	Train Epoch: 34	[6000/8000 (75%)]	Loss: 1.084037
1032	Train Epoch: 34	[7000/8000 (88%)]	Loss: 1.084573
1033			
1034	Test set:	Avg. loss: 0.8438, Accuracy: 1500/2000 (75.000%)	
1035			
1036	New best test_loss:	0.8438075184822083!	
1037	Train Epoch: 35	[0/8000 (0%)]	Loss: 1.061901
1038	Train Epoch: 35	[1000/8000 (12%)]	Loss: 0.895448
1039	Train Epoch: 35	[2000/8000 (25%)]	Loss: 0.992238
1040	Train Epoch: 35	[3000/8000 (38%)]	Loss: 1.074582
1041	Train Epoch: 35	[4000/8000 (50%)]	Loss: 1.170026
1042	Train Epoch: 35	[5000/8000 (62%)]	Loss: 1.213448
1043	Train Epoch: 35	[6000/8000 (75%)]	Loss: 1.148331
1044	Train Epoch: 35	[7000/8000 (88%)]	Loss: 1.108005
1045			
1046	Test set:	Avg. loss: 0.8345, Accuracy: 1521/2000 (76.050%)	
1047			
1048	New best test_loss:	0.834521472454071!	
1049	Train Epoch: 36	[0/8000 (0%)]	Loss: 0.923923
1050	Train Epoch: 36	[1000/8000 (12%)]	Loss: 1.045441
1051	Train Epoch: 36	[2000/8000 (25%)]	Loss: 1.029104
1052	Train Epoch: 36	[3000/8000 (38%)]	Loss: 1.111314
1053	Train Epoch: 36	[4000/8000 (50%)]	Loss: 1.096830
1054	Train Epoch: 36	[5000/8000 (62%)]	Loss: 1.210885

1055	Train Epoch: 36 [6000/8000 (75%)]	Loss: 1.072313
1056	Train Epoch: 36 [7000/8000 (88%)]	Loss: 1.167644
1057		
1058	Test set: Avg. loss: 0.8240, Accuracy: 1498/2000 (74.900%)	
1059		
1060	New best test_loss: 0.8239682912826538!	
1061	Train Epoch: 37 [0/8000 (0%)]	Loss: 1.135700
1062	Train Epoch: 37 [1000/8000 (12%)]	Loss: 0.945196
1063	Train Epoch: 37 [2000/8000 (25%)]	Loss: 0.920324
1064	Train Epoch: 37 [3000/8000 (38%)]	Loss: 1.056622
1065	Train Epoch: 37 [4000/8000 (50%)]	Loss: 0.990029
1066	Train Epoch: 37 [5000/8000 (62%)]	Loss: 1.250525
1067	Train Epoch: 37 [6000/8000 (75%)]	Loss: 1.080601
1068	Train Epoch: 37 [7000/8000 (88%)]	Loss: 1.023972
1069		
1070	Test set: Avg. loss: 0.7869, Accuracy: 1526/2000 (76.300%)	
1071		
1072	New best test_loss: 0.7868812680244446!	
1073	Train Epoch: 38 [0/8000 (0%)]	Loss: 0.909628
1074	Train Epoch: 38 [1000/8000 (12%)]	Loss: 0.929539
1075	Train Epoch: 38 [2000/8000 (25%)]	Loss: 1.039626
1076	Train Epoch: 38 [3000/8000 (38%)]	Loss: 1.039387
1077	Train Epoch: 38 [4000/8000 (50%)]	Loss: 1.054547
1078	Train Epoch: 38 [5000/8000 (62%)]	Loss: 1.051688
1079	Train Epoch: 38 [6000/8000 (75%)]	Loss: 1.054367
1080	Train Epoch: 38 [7000/8000 (88%)]	Loss: 0.994945
1081		
1082	Test set: Avg. loss: 0.7378, Accuracy: 1569/2000 (78.450%)	
1083		
1084	New best test_loss: 0.7377848625183105!	
1085	Train Epoch: 39 [0/8000 (0%)]	Loss: 1.064768
1086	Train Epoch: 39 [1000/8000 (12%)]	Loss: 0.872784
1087	Train Epoch: 39 [2000/8000 (25%)]	Loss: 1.025027
1088	Train Epoch: 39 [3000/8000 (38%)]	Loss: 1.069509
1089	Train Epoch: 39 [4000/8000 (50%)]	Loss: 0.957295
1090	Train Epoch: 39 [5000/8000 (62%)]	Loss: 1.166137
1091	Train Epoch: 39 [6000/8000 (75%)]	Loss: 0.942601
1092	Train Epoch: 39 [7000/8000 (88%)]	Loss: 1.039923

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1093
1094 Test set: Avg. loss: 0.7339, Accuracy: 1590/2000 (79.500%)
1095
1096 New best test_loss: 0.7338593006134033!
1097 Train Epoch: 40 [0/8000 (0%)] Loss: 0.937815
1098 Train Epoch: 40 [1000/8000 (12%)] Loss: 0.874997
1099 Train Epoch: 40 [2000/8000 (25%)] Loss: 0.967631
1100 Train Epoch: 40 [3000/8000 (38%)] Loss: 1.043723
1101 Train Epoch: 40 [4000/8000 (50%)] Loss: 1.008996
1102 Train Epoch: 40 [5000/8000 (62%)] Loss: 1.049855
1103 Train Epoch: 40 [6000/8000 (75%)] Loss: 0.971326
1104 Train Epoch: 40 [7000/8000 (88%)] Loss: 1.072652
1105
1106 Test set: Avg. loss: 0.7472, Accuracy: 1570/2000 (78.500%)
1107
1108 Train Epoch: 41 [0/8000 (0%)] Loss: 1.004600
1109 Train Epoch: 41 [1000/8000 (12%)] Loss: 1.019759
1110 Train Epoch: 41 [2000/8000 (25%)] Loss: 0.979063
1111 Train Epoch: 41 [3000/8000 (38%)] Loss: 0.913391
1112 Train Epoch: 41 [4000/8000 (50%)] Loss: 1.062690
1113 Train Epoch: 41 [5000/8000 (62%)] Loss: 1.077719
1114 Train Epoch: 41 [6000/8000 (75%)] Loss: 1.098947
1115 Train Epoch: 41 [7000/8000 (88%)] Loss: 0.914072
1116
1117 Test set: Avg. loss: 0.7112, Accuracy: 1585/2000 (79.250%)
1118
1119 New best test_loss: 0.7112018465995789!
1120 Train Epoch: 42 [0/8000 (0%)] Loss: 0.986017
1121 Train Epoch: 42 [1000/8000 (12%)] Loss: 0.931928
1122 Train Epoch: 42 [2000/8000 (25%)] Loss: 0.900748
1123 Train Epoch: 42 [3000/8000 (38%)] Loss: 0.968212
1124 Train Epoch: 42 [4000/8000 (50%)] Loss: 0.958965
1125 Train Epoch: 42 [5000/8000 (62%)] Loss: 0.946018
1126 Train Epoch: 42 [6000/8000 (75%)] Loss: 0.927049
1127 Train Epoch: 42 [7000/8000 (88%)] Loss: 0.942403
1128
1129 Test set: Avg. loss: 0.7218, Accuracy: 1562/2000 (78.100%)
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1130
1131 Train Epoch: 43 [0/8000 (0%)] Loss: 0.981607
1132 Train Epoch: 43 [1000/8000 (12%)] Loss: 0.844878
1133 Train Epoch: 43 [2000/8000 (25%)] Loss: 0.931143
1134 Train Epoch: 43 [3000/8000 (38%)] Loss: 1.027057
1135 Train Epoch: 43 [4000/8000 (50%)] Loss: 0.914822
1136 Train Epoch: 43 [5000/8000 (62%)] Loss: 1.125652
1137 Train Epoch: 43 [6000/8000 (75%)] Loss: 0.998650
1138 Train Epoch: 43 [7000/8000 (88%)] Loss: 0.948304
1139
1140 Test set: Avg. loss: 0.7060, Accuracy: 1574/2000 (78.700%)
1141
1142 New best test_loss: 0.7059552669525146!
1143 Train Epoch: 44 [0/8000 (0%)] Loss: 0.950711
1144 Train Epoch: 44 [1000/8000 (12%)] Loss: 0.880316
1145 Train Epoch: 44 [2000/8000 (25%)] Loss: 0.997342
1146 Train Epoch: 44 [3000/8000 (38%)] Loss: 0.926576
1147 Train Epoch: 44 [4000/8000 (50%)] Loss: 0.869378
1148 Train Epoch: 44 [5000/8000 (62%)] Loss: 1.062576
1149 Train Epoch: 44 [6000/8000 (75%)] Loss: 0.959757
1150 Train Epoch: 44 [7000/8000 (88%)] Loss: 1.028447
1151
1152 Test set: Avg. loss: 0.7042, Accuracy: 1590/2000 (79.500%)
1153
1154 New best test_loss: 0.7042091488838196!
1155 Train Epoch: 45 [0/8000 (0%)] Loss: 0.979662
1156 Train Epoch: 45 [1000/8000 (12%)] Loss: 0.811903
1157 Train Epoch: 45 [2000/8000 (25%)] Loss: 0.904743
1158 Train Epoch: 45 [3000/8000 (38%)] Loss: 0.941743
1159 Train Epoch: 45 [4000/8000 (50%)] Loss: 0.990112
1160 Train Epoch: 45 [5000/8000 (62%)] Loss: 0.991724
1161 Train Epoch: 45 [6000/8000 (75%)] Loss: 0.996631
1162 Train Epoch: 45 [7000/8000 (88%)] Loss: 1.008538
1163
1164 Test set: Avg. loss: 0.6788, Accuracy: 1602/2000 (80.100%)
1165
1166 New best test_loss: 0.6787760853767395!
1167 Train Epoch: 46 [0/8000 (0%)] Loss: 0.937707
```

1168	Train Epoch: 46	[1000/8000 (12%)]	Loss: 0.803829
1169	Train Epoch: 46	[2000/8000 (25%)]	Loss: 0.909426
1170	Train Epoch: 46	[3000/8000 (38%)]	Loss: 0.968229
1171	Train Epoch: 46	[4000/8000 (50%)]	Loss: 0.932624
1172	Train Epoch: 46	[5000/8000 (62%)]	Loss: 1.130877
1173	Train Epoch: 46	[6000/8000 (75%)]	Loss: 0.879740
1174	Train Epoch: 46	[7000/8000 (88%)]	Loss: 0.812723
1175			
1176	Test set:	Avg. loss: 0.6627, Accuracy: 1617/2000 (80.850%)	
1177			
1178	New best test_loss:	0.6626731157302856!	
1179	Train Epoch: 47	[0/8000 (0%)]	Loss: 0.934629
1180	Train Epoch: 47	[1000/8000 (12%)]	Loss: 0.915211
1181	Train Epoch: 47	[2000/8000 (25%)]	Loss: 0.881173
1182	Train Epoch: 47	[3000/8000 (38%)]	Loss: 0.900590
1183	Train Epoch: 47	[4000/8000 (50%)]	Loss: 0.885928
1184	Train Epoch: 47	[5000/8000 (62%)]	Loss: 0.851189
1185	Train Epoch: 47	[6000/8000 (75%)]	Loss: 0.924304
1186	Train Epoch: 47	[7000/8000 (88%)]	Loss: 0.921189
1187			
1188	Test set:	Avg. loss: 0.6351, Accuracy: 1635/2000 (81.750%)	
1189			
1190	New best test_loss:	0.635124146938324!	
1191	Train Epoch: 48	[0/8000 (0%)]	Loss: 0.772767
1192	Train Epoch: 48	[1000/8000 (12%)]	Loss: 0.903702
1193	Train Epoch: 48	[2000/8000 (25%)]	Loss: 1.014516
1194	Train Epoch: 48	[3000/8000 (38%)]	Loss: 0.908925
1195	Train Epoch: 48	[4000/8000 (50%)]	Loss: 0.875820
1196	Train Epoch: 48	[5000/8000 (62%)]	Loss: 0.996773
1197	Train Epoch: 48	[6000/8000 (75%)]	Loss: 0.933738
1198	Train Epoch: 48	[7000/8000 (88%)]	Loss: 0.778687
1199			
1200	Test set:	Avg. loss: 0.6382, Accuracy: 1644/2000 (82.200%)	
1201			
1202	Train Epoch: 49	[0/8000 (0%)]	Loss: 0.832103
1203	Train Epoch: 49	[1000/8000 (12%)]	Loss: 0.784445
1204	Train Epoch: 49	[2000/8000 (25%)]	Loss: 0.930460
1205	Train Epoch: 49	[3000/8000 (38%)]	Loss: 1.063300

1206	Train Epoch: 49	[4000/8000 (50%)]	Loss: 0.946268
1207	Train Epoch: 49	[5000/8000 (62%)]	Loss: 0.918743
1208	Train Epoch: 49	[6000/8000 (75%)]	Loss: 0.908619
1209	Train Epoch: 49	[7000/8000 (88%)]	Loss: 0.833514
1210			
1211	Test set:	Avg. loss: 0.6242, Accuracy: 1634/2000 (81.700%)	
1212			
1213	New best test_loss: 0.6241685152053833!		
1214	Train Epoch: 50	[0/8000 (0%)]	Loss: 0.910855
1215	Train Epoch: 50	[1000/8000 (12%)]	Loss: 0.775499
1216	Train Epoch: 50	[2000/8000 (25%)]	Loss: 0.897738
1217	Train Epoch: 50	[3000/8000 (38%)]	Loss: 1.020857
1218	Train Epoch: 50	[4000/8000 (50%)]	Loss: 0.869134
1219	Train Epoch: 50	[5000/8000 (62%)]	Loss: 1.158042
1220	Train Epoch: 50	[6000/8000 (75%)]	Loss: 0.972234
1221	Train Epoch: 50	[7000/8000 (88%)]	Loss: 0.779219
1222			
1223	Test set:	Avg. loss: 0.6262, Accuracy: 1627/2000 (81.350%)	
1224			
1225	Train Epoch: 51	[0/8000 (0%)]	Loss: 0.811505
1226	Train Epoch: 51	[1000/8000 (12%)]	Loss: 0.920772
1227	Train Epoch: 51	[2000/8000 (25%)]	Loss: 0.904483
1228	Train Epoch: 51	[3000/8000 (38%)]	Loss: 0.955294
1229	Train Epoch: 51	[4000/8000 (50%)]	Loss: 0.942641
1230	Train Epoch: 51	[5000/8000 (62%)]	Loss: 1.123983
1231	Train Epoch: 51	[6000/8000 (75%)]	Loss: 0.807416
1232	Train Epoch: 51	[7000/8000 (88%)]	Loss: 0.868314
1233			
1234	Test set:	Avg. loss: 0.6185, Accuracy: 1637/2000 (81.850%)	
1235			
1236	New best test_loss: 0.6184903383255005!		
1237	Train Epoch: 52	[0/8000 (0%)]	Loss: 0.834049
1238	Train Epoch: 52	[1000/8000 (12%)]	Loss: 0.807785
1239	Train Epoch: 52	[2000/8000 (25%)]	Loss: 0.847915
1240	Train Epoch: 52	[3000/8000 (38%)]	Loss: 0.880386
1241	Train Epoch: 52	[4000/8000 (50%)]	Loss: 0.913856
1242	Train Epoch: 52	[5000/8000 (62%)]	Loss: 0.953383
1243	Train Epoch: 52	[6000/8000 (75%)]	Loss: 0.841625

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1244 Train Epoch: 52 [7000/8000 (88%)] Loss: 0.875070
1245
1246 Test set: Avg. loss: 0.5851, Accuracy: 1664/2000 (83.200%)
1247
1248 New best test_loss: 0.5850751399993896!
1249 Train Epoch: 53 [0/8000 (0%)] Loss: 0.749868
1250 Train Epoch: 53 [1000/8000 (12%)] Loss: 0.740107
1251 Train Epoch: 53 [2000/8000 (25%)] Loss: 0.910934
1252 Train Epoch: 53 [3000/8000 (38%)] Loss: 0.812674
1253 Train Epoch: 53 [4000/8000 (50%)] Loss: 0.929725
1254 Train Epoch: 53 [5000/8000 (62%)] Loss: 1.031100
1255 Train Epoch: 53 [6000/8000 (75%)] Loss: 0.829866
1256 Train Epoch: 53 [7000/8000 (88%)] Loss: 0.862258
1257
1258 Test set: Avg. loss: 0.5848, Accuracy: 1658/2000 (82.900%)
1259
1260 New best test_loss: 0.5848023891448975!
1261 Train Epoch: 54 [0/8000 (0%)] Loss: 0.817855
1262 Train Epoch: 54 [1000/8000 (12%)] Loss: 0.675955
1263 Train Epoch: 54 [2000/8000 (25%)] Loss: 0.917130
1264 Train Epoch: 54 [3000/8000 (38%)] Loss: 0.698841
1265 Train Epoch: 54 [4000/8000 (50%)] Loss: 0.828015
1266 Train Epoch: 54 [5000/8000 (62%)] Loss: 0.894119
1267 Train Epoch: 54 [6000/8000 (75%)] Loss: 0.735881
1268 Train Epoch: 54 [7000/8000 (88%)] Loss: 0.793813
1269
1270 Test set: Avg. loss: 0.6190, Accuracy: 1632/2000 (81.600%)
1271
1272 Train Epoch: 55 [0/8000 (0%)] Loss: 0.868500
1273 Train Epoch: 55 [1000/8000 (12%)] Loss: 0.841009
1274 Train Epoch: 55 [2000/8000 (25%)] Loss: 0.822926
1275 Train Epoch: 55 [3000/8000 (38%)] Loss: 0.887702
1276 Train Epoch: 55 [4000/8000 (50%)] Loss: 0.879080
1277 Train Epoch: 55 [5000/8000 (62%)] Loss: 0.989582
1278 Train Epoch: 55 [6000/8000 (75%)] Loss: 0.938085
1279 Train Epoch: 55 [7000/8000 (88%)] Loss: 0.885127
1280
1281 Test set: Avg. loss: 0.5927, Accuracy: 1649/2000 (
```

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1281 82.450%)  
1282  
1283 Train Epoch: 56 [0/8000 (0%)] Loss: 0.806196  
1284 Train Epoch: 56 [1000/8000 (12%)] Loss: 0.722109  
1285 Train Epoch: 56 [2000/8000 (25%)] Loss: 0.842629  
1286 Train Epoch: 56 [3000/8000 (38%)] Loss: 0.837154  
1287 Train Epoch: 56 [4000/8000 (50%)] Loss: 0.929342  
1288 Train Epoch: 56 [5000/8000 (62%)] Loss: 0.926528  
1289 Train Epoch: 56 [6000/8000 (75%)] Loss: 0.818955  
1290 Train Epoch: 56 [7000/8000 (88%)] Loss: 0.803219  
1291  
1292 Test set: Avg. loss: 0.6226, Accuracy: 1639/2000 (81.950%)  
1293  
1294 Train Epoch: 57 [0/8000 (0%)] Loss: 0.782822  
1295 Train Epoch: 57 [1000/8000 (12%)] Loss: 0.863236  
1296 Train Epoch: 57 [2000/8000 (25%)] Loss: 0.773304  
1297 Train Epoch: 57 [3000/8000 (38%)] Loss: 0.729092  
1298 Train Epoch: 57 [4000/8000 (50%)] Loss: 0.807260  
1299 Train Epoch: 57 [5000/8000 (62%)] Loss: 0.936031  
1300 Train Epoch: 57 [6000/8000 (75%)] Loss: 0.759215  
1301 Train Epoch: 57 [7000/8000 (88%)] Loss: 0.798786  
1302  
1303 Test set: Avg. loss: 0.5782, Accuracy: 1675/2000 (83.750%)  
1304  
1305 New best test_loss: 0.5782343745231628!  
1306 Train Epoch: 58 [0/8000 (0%)] Loss: 0.876259  
1307 Train Epoch: 58 [1000/8000 (12%)] Loss: 0.900396  
1308 Train Epoch: 58 [2000/8000 (25%)] Loss: 0.847200  
1309 Train Epoch: 58 [3000/8000 (38%)] Loss: 0.812949  
1310 Train Epoch: 58 [4000/8000 (50%)] Loss: 0.944431  
1311 Train Epoch: 58 [5000/8000 (62%)] Loss: 0.912346  
1312 Train Epoch: 58 [6000/8000 (75%)] Loss: 0.769334  
1313 Train Epoch: 58 [7000/8000 (88%)] Loss: 0.853911  
1314  
1315 Test set: Avg. loss: 0.5736, Accuracy: 1658/2000 (82.900%)  
1316  
1317 New best test_loss: 0.5735777616500854!  
1318 Train Epoch: 59 [0/8000 (0%)] Loss: 0.897821
```

1319	Train Epoch: 59	[1000/8000 (12%)]	Loss: 0.625422
1320	Train Epoch: 59	[2000/8000 (25%)]	Loss: 0.823944
1321	Train Epoch: 59	[3000/8000 (38%)]	Loss: 0.820078
1322	Train Epoch: 59	[4000/8000 (50%)]	Loss: 0.863672
1323	Train Epoch: 59	[5000/8000 (62%)]	Loss: 0.846344
1324	Train Epoch: 59	[6000/8000 (75%)]	Loss: 0.774183
1325	Train Epoch: 59	[7000/8000 (88%)]	Loss: 0.757414
1326			
1327	Test set:	Avg. loss: 0.5812, Accuracy: 1674/2000 (83.700%)	
1328			
1329	Train Epoch: 60	[0/8000 (0%)]	Loss: 0.754470
1330	Train Epoch: 60	[1000/8000 (12%)]	Loss: 0.756850
1331	Train Epoch: 60	[2000/8000 (25%)]	Loss: 0.925856
1332	Train Epoch: 60	[3000/8000 (38%)]	Loss: 0.706272
1333	Train Epoch: 60	[4000/8000 (50%)]	Loss: 0.886584
1334	Train Epoch: 60	[5000/8000 (62%)]	Loss: 0.970964
1335	Train Epoch: 60	[6000/8000 (75%)]	Loss: 0.825440
1336	Train Epoch: 60	[7000/8000 (88%)]	Loss: 0.979974
1337			
1338	Test set:	Avg. loss: 0.5714, Accuracy: 1675/2000 (83.750%)	
1339			
1340	New best test_loss: 0.5713629722595215!		
1341	Train Epoch: 61	[0/8000 (0%)]	Loss: 0.685067
1342	Train Epoch: 61	[1000/8000 (12%)]	Loss: 0.758032
1343	Train Epoch: 61	[2000/8000 (25%)]	Loss: 0.910739
1344	Train Epoch: 61	[3000/8000 (38%)]	Loss: 0.842737
1345	Train Epoch: 61	[4000/8000 (50%)]	Loss: 0.861415
1346	Train Epoch: 61	[5000/8000 (62%)]	Loss: 0.918718
1347	Train Epoch: 61	[6000/8000 (75%)]	Loss: 0.898347
1348	Train Epoch: 61	[7000/8000 (88%)]	Loss: 0.771373
1349			
1350	Test set:	Avg. loss: 0.5544, Accuracy: 1679/2000 (83.950%)	
1351			
1352	New best test_loss: 0.5543560981750488!		
1353	Train Epoch: 62	[0/8000 (0%)]	Loss: 0.827359
1354	Train Epoch: 62	[1000/8000 (12%)]	Loss: 0.830502
1355	Train Epoch: 62	[2000/8000 (25%)]	Loss: 0.763811
1356	Train Epoch: 62	[3000/8000 (38%)]	Loss: 0.838822

1357	Train Epoch: 62	[4000/8000 (50%)]	Loss: 0.808788
1358	Train Epoch: 62	[5000/8000 (62%)]	Loss: 0.838692
1359	Train Epoch: 62	[6000/8000 (75%)]	Loss: 0.830239
1360	Train Epoch: 62	[7000/8000 (88%)]	Loss: 0.766451
1361			
1362	Test set:	Avg. loss: 0.5518, Accuracy: 1677/2000 (83.850%)	
1363			
1364	New best test_loss: 0.5517730116844177!		
1365	Train Epoch: 63	[0/8000 (0%)]	Loss: 0.866794
1366	Train Epoch: 63	[1000/8000 (12%)]	Loss: 0.734985
1367	Train Epoch: 63	[2000/8000 (25%)]	Loss: 0.870920
1368	Train Epoch: 63	[3000/8000 (38%)]	Loss: 0.745726
1369	Train Epoch: 63	[4000/8000 (50%)]	Loss: 0.932515
1370	Train Epoch: 63	[5000/8000 (62%)]	Loss: 0.803994
1371	Train Epoch: 63	[6000/8000 (75%)]	Loss: 0.836766
1372	Train Epoch: 63	[7000/8000 (88%)]	Loss: 0.807640
1373			
1374	Test set:	Avg. loss: 0.5614, Accuracy: 1678/2000 (83.900%)	
1375			
1376	Train Epoch: 64	[0/8000 (0%)]	Loss: 0.741595
1377	Train Epoch: 64	[1000/8000 (12%)]	Loss: 0.670570
1378	Train Epoch: 64	[2000/8000 (25%)]	Loss: 0.773491
1379	Train Epoch: 64	[3000/8000 (38%)]	Loss: 0.945558
1380	Train Epoch: 64	[4000/8000 (50%)]	Loss: 0.813355
1381	Train Epoch: 64	[5000/8000 (62%)]	Loss: 0.831427
1382	Train Epoch: 64	[6000/8000 (75%)]	Loss: 0.726025
1383	Train Epoch: 64	[7000/8000 (88%)]	Loss: 0.781865
1384			
1385	Test set:	Avg. loss: 0.5269, Accuracy: 1696/2000 (84.800%)	
1386			
1387	New best test_loss: 0.5269254446029663!		
1388	Train Epoch: 65	[0/8000 (0%)]	Loss: 0.712983
1389	Train Epoch: 65	[1000/8000 (12%)]	Loss: 0.703306
1390	Train Epoch: 65	[2000/8000 (25%)]	Loss: 0.898487
1391	Train Epoch: 65	[3000/8000 (38%)]	Loss: 0.794783
1392	Train Epoch: 65	[4000/8000 (50%)]	Loss: 0.843033
1393	Train Epoch: 65	[5000/8000 (62%)]	Loss: 1.024379
1394	Train Epoch: 65	[6000/8000 (75%)]	Loss: 0.769693

1395	Train Epoch: 65 [7000/8000 (88%)]	Loss: 0.753992
1396		
1397	Test set: Avg. loss: 0.5528, Accuracy: 1671/2000 (83.550%)	
1398		
1399	Train Epoch: 66 [0/8000 (0%)]	Loss: 0.703671
1400	Train Epoch: 66 [1000/8000 (12%)]	Loss: 0.734720
1401	Train Epoch: 66 [2000/8000 (25%)]	Loss: 0.695658
1402	Train Epoch: 66 [3000/8000 (38%)]	Loss: 0.803165
1403	Train Epoch: 66 [4000/8000 (50%)]	Loss: 0.905583
1404	Train Epoch: 66 [5000/8000 (62%)]	Loss: 0.778047
1405	Train Epoch: 66 [6000/8000 (75%)]	Loss: 0.818113
1406	Train Epoch: 66 [7000/8000 (88%)]	Loss: 0.815143
1407		
1408	Test set: Avg. loss: 0.5374, Accuracy: 1698/2000 (84.900%)	
1409		
1410	Train Epoch: 67 [0/8000 (0%)]	Loss: 0.733736
1411	Train Epoch: 67 [1000/8000 (12%)]	Loss: 0.806299
1412	Train Epoch: 67 [2000/8000 (25%)]	Loss: 0.759579
1413	Train Epoch: 67 [3000/8000 (38%)]	Loss: 0.808630
1414	Train Epoch: 67 [4000/8000 (50%)]	Loss: 0.843801
1415	Train Epoch: 67 [5000/8000 (62%)]	Loss: 0.976375
1416	Train Epoch: 67 [6000/8000 (75%)]	Loss: 0.801060
1417	Train Epoch: 67 [7000/8000 (88%)]	Loss: 0.671438
1418		
1419	Test set: Avg. loss: 0.5376, Accuracy: 1685/2000 (84.250%)	
1420		
1421	Train Epoch: 68 [0/8000 (0%)]	Loss: 0.643305
1422	Train Epoch: 68 [1000/8000 (12%)]	Loss: 0.639597
1423	Train Epoch: 68 [2000/8000 (25%)]	Loss: 0.674586
1424	Train Epoch: 68 [3000/8000 (38%)]	Loss: 0.649627
1425	Train Epoch: 68 [4000/8000 (50%)]	Loss: 0.788043
1426	Train Epoch: 68 [5000/8000 (62%)]	Loss: 0.718373
1427	Train Epoch: 68 [6000/8000 (75%)]	Loss: 0.838021
1428	Train Epoch: 68 [7000/8000 (88%)]	Loss: 0.643975
1429		
1430	Test set: Avg. loss: 0.5289, Accuracy: 1694/2000 (84.700%)	
1431		

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1432 Train Epoch: 69 [0/8000 (0%)] Loss: 0.710339
1433 Train Epoch: 69 [1000/8000 (12%)] Loss: 0.808597
1434 Train Epoch: 69 [2000/8000 (25%)] Loss: 0.877786
1435 Train Epoch: 69 [3000/8000 (38%)] Loss: 0.788167
1436 Train Epoch: 69 [4000/8000 (50%)] Loss: 0.907442
1437 Train Epoch: 69 [5000/8000 (62%)] Loss: 0.835036
1438 Train Epoch: 69 [6000/8000 (75%)] Loss: 0.731021
1439 Train Epoch: 69 [7000/8000 (88%)] Loss: 0.704683
1440
1441 Test set: Avg. loss: 0.5115, Accuracy: 1697/2000 (84.850%)
1442
1443 New best test_loss: 0.5115147829055786!
1444 Train Epoch: 70 [0/8000 (0%)] Loss: 0.732587
1445 Train Epoch: 70 [1000/8000 (12%)] Loss: 0.644154
1446 Train Epoch: 70 [2000/8000 (25%)] Loss: 0.772396
1447 Train Epoch: 70 [3000/8000 (38%)] Loss: 0.843474
1448 Train Epoch: 70 [4000/8000 (50%)] Loss: 0.965797
1449 Train Epoch: 70 [5000/8000 (62%)] Loss: 0.870843
1450 Train Epoch: 70 [6000/8000 (75%)] Loss: 0.648044
1451 Train Epoch: 70 [7000/8000 (88%)] Loss: 0.827705
1452
1453 Test set: Avg. loss: 0.5210, Accuracy: 1710/2000 (85.500%)
1454
1455 Train Epoch: 71 [0/8000 (0%)] Loss: 0.718579
1456 Train Epoch: 71 [1000/8000 (12%)] Loss: 0.764522
1457 Train Epoch: 71 [2000/8000 (25%)] Loss: 0.718234
1458 Train Epoch: 71 [3000/8000 (38%)] Loss: 0.814495
1459 Train Epoch: 71 [4000/8000 (50%)] Loss: 0.736557
1460 Train Epoch: 71 [5000/8000 (62%)] Loss: 0.939777
1461 Train Epoch: 71 [6000/8000 (75%)] Loss: 0.734485
1462 Train Epoch: 71 [7000/8000 (88%)] Loss: 0.778390
1463
1464 Test set: Avg. loss: 0.5247, Accuracy: 1687/2000 (84.350%)
1465
1466 Train Epoch: 72 [0/8000 (0%)] Loss: 0.708470
1467 Train Epoch: 72 [1000/8000 (12%)] Loss: 0.762581
1468 Train Epoch: 72 [2000/8000 (25%)] Loss: 0.792032
1469 Train Epoch: 72 [3000/8000 (38%)] Loss: 0.708703
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1470	Train Epoch: 72	[4000/8000 (50%)]	Loss: 0.850853
1471	Train Epoch: 72	[5000/8000 (62%)]	Loss: 0.856224
1472	Train Epoch: 72	[6000/8000 (75%)]	Loss: 0.835003
1473	Train Epoch: 72	[7000/8000 (88%)]	Loss: 0.622656
1474			
1475	Test set:	Avg. loss: 0.5079, Accuracy: 1702/2000 (85.100%)	
1476			
1477	New best test_loss:	0.5079258680343628!	
1478	Train Epoch: 73	[0/8000 (0%)]	Loss: 0.791467
1479	Train Epoch: 73	[1000/8000 (12%)]	Loss: 0.690224
1480	Train Epoch: 73	[2000/8000 (25%)]	Loss: 0.742234
1481	Train Epoch: 73	[3000/8000 (38%)]	Loss: 0.753527
1482	Train Epoch: 73	[4000/8000 (50%)]	Loss: 0.875725
1483	Train Epoch: 73	[5000/8000 (62%)]	Loss: 0.776902
1484	Train Epoch: 73	[6000/8000 (75%)]	Loss: 0.872289
1485	Train Epoch: 73	[7000/8000 (88%)]	Loss: 0.625663
1486			
1487	Test set:	Avg. loss: 0.5021, Accuracy: 1705/2000 (85.250%)	
1488			
1489	New best test_loss:	0.502135694026947!	
1490	Train Epoch: 74	[0/8000 (0%)]	Loss: 0.669979
1491	Train Epoch: 74	[1000/8000 (12%)]	Loss: 0.746661
1492	Train Epoch: 74	[2000/8000 (25%)]	Loss: 0.785397
1493	Train Epoch: 74	[3000/8000 (38%)]	Loss: 0.655668
1494	Train Epoch: 74	[4000/8000 (50%)]	Loss: 0.771290
1495	Train Epoch: 74	[5000/8000 (62%)]	Loss: 0.897296
1496	Train Epoch: 74	[6000/8000 (75%)]	Loss: 0.766498
1497	Train Epoch: 74	[7000/8000 (88%)]	Loss: 0.687020
1498			
1499	Test set:	Avg. loss: 0.5098, Accuracy: 1708/2000 (85.400%)	
1500			
1501	Train Epoch: 75	[0/8000 (0%)]	Loss: 0.723050
1502	Train Epoch: 75	[1000/8000 (12%)]	Loss: 0.598881
1503	Train Epoch: 75	[2000/8000 (25%)]	Loss: 0.861249
1504	Train Epoch: 75	[3000/8000 (38%)]	Loss: 0.778862
1505	Train Epoch: 75	[4000/8000 (50%)]	Loss: 0.870128
1506	Train Epoch: 75	[5000/8000 (62%)]	Loss: 0.920255
1507	Train Epoch: 75	[6000/8000 (75%)]	Loss: 0.644742

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1508 Train Epoch: 75 [7000/8000 (88%)] Loss: 0.740266
1509
1510 Test set: Avg. loss: 0.4953, Accuracy: 1702/2000 (85.100%)
1511
1512 New best test_loss: 0.49534884095191956!
1513 Train Epoch: 76 [0/8000 (0%)] Loss: 0.793221
1514 Train Epoch: 76 [1000/8000 (12%)] Loss: 0.659603
1515 Train Epoch: 76 [2000/8000 (25%)] Loss: 0.756362
1516 Train Epoch: 76 [3000/8000 (38%)] Loss: 0.665242
1517 Train Epoch: 76 [4000/8000 (50%)] Loss: 0.709040
1518 Train Epoch: 76 [5000/8000 (62%)] Loss: 0.823505
1519 Train Epoch: 76 [6000/8000 (75%)] Loss: 0.780473
1520 Train Epoch: 76 [7000/8000 (88%)] Loss: 0.619931
1521
1522 Test set: Avg. loss: 0.4891, Accuracy: 1712/2000 (85.600%)
1523
1524 New best test_loss: 0.4890654981136322!
1525 Train Epoch: 77 [0/8000 (0%)] Loss: 0.731137
1526 Train Epoch: 77 [1000/8000 (12%)] Loss: 0.696887
1527 Train Epoch: 77 [2000/8000 (25%)] Loss: 0.891961
1528 Train Epoch: 77 [3000/8000 (38%)] Loss: 0.692804
1529 Train Epoch: 77 [4000/8000 (50%)] Loss: 0.835229
1530 Train Epoch: 77 [5000/8000 (62%)] Loss: 0.819508
1531 Train Epoch: 77 [6000/8000 (75%)] Loss: 0.797271
1532 Train Epoch: 77 [7000/8000 (88%)] Loss: 0.710154
1533
1534 Test set: Avg. loss: 0.4885, Accuracy: 1700/2000 (85.000%)
1535
1536 New best test_loss: 0.4885159432888031!
1537 Train Epoch: 78 [0/8000 (0%)] Loss: 0.556104
1538 Train Epoch: 78 [1000/8000 (12%)] Loss: 0.634991
1539 Train Epoch: 78 [2000/8000 (25%)] Loss: 0.629126
1540 Train Epoch: 78 [3000/8000 (38%)] Loss: 0.743490
1541 Train Epoch: 78 [4000/8000 (50%)] Loss: 0.887806
1542 Train Epoch: 78 [5000/8000 (62%)] Loss: 1.046185
1543 Train Epoch: 78 [6000/8000 (75%)] Loss: 0.785633
1544 Train Epoch: 78 [7000/8000 (88%)] Loss: 0.746789
1545
```

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1546 Test set: Avg. loss: 0.5119, Accuracy: 1694/2000 (84.700%)
1547
1548 Train Epoch: 79 [0/8000 (0%)] Loss: 0.728163
1549 Train Epoch: 79 [1000/8000 (12%)] Loss: 0.632909
1550 Train Epoch: 79 [2000/8000 (25%)] Loss: 0.754612
1551 Train Epoch: 79 [3000/8000 (38%)] Loss: 0.638390
1552 Train Epoch: 79 [4000/8000 (50%)] Loss: 0.633359
1553 Train Epoch: 79 [5000/8000 (62%)] Loss: 0.723345
1554 Train Epoch: 79 [6000/8000 (75%)] Loss: 0.671141
1555 Train Epoch: 79 [7000/8000 (88%)] Loss: 0.781926
1556
1557 Test set: Avg. loss: 0.4911, Accuracy: 1714/2000 (85.700%)
1558
1559 Train Epoch: 80 [0/8000 (0%)] Loss: 0.581122
1560 Train Epoch: 80 [1000/8000 (12%)] Loss: 0.708556
1561 Train Epoch: 80 [2000/8000 (25%)] Loss: 0.661648
1562 Train Epoch: 80 [3000/8000 (38%)] Loss: 0.659036
1563 Train Epoch: 80 [4000/8000 (50%)] Loss: 0.713684
1564 Train Epoch: 80 [5000/8000 (62%)] Loss: 0.818906
1565 Train Epoch: 80 [6000/8000 (75%)] Loss: 0.720927
1566 Train Epoch: 80 [7000/8000 (88%)] Loss: 0.678567
1567
1568 Test set: Avg. loss: 0.4746, Accuracy: 1723/2000 (86.150%)
1569
1570 New best test_loss: 0.4746138453483581!
1571 Train Epoch: 81 [0/8000 (0%)] Loss: 0.601521
1572 Train Epoch: 81 [1000/8000 (12%)] Loss: 0.672182
1573 Train Epoch: 81 [2000/8000 (25%)] Loss: 0.770658
1574 Train Epoch: 81 [3000/8000 (38%)] Loss: 0.824841
1575 Train Epoch: 81 [4000/8000 (50%)] Loss: 0.669746
1576 Train Epoch: 81 [5000/8000 (62%)] Loss: 0.764032
1577 Train Epoch: 81 [6000/8000 (75%)] Loss: 0.832521
1578 Train Epoch: 81 [7000/8000 (88%)] Loss: 0.636466
1579
1580 Test set: Avg. loss: 0.4635, Accuracy: 1729/2000 (86.450%)
1581
1582 New best test_loss: 0.463492751121521!
```

1583	Train Epoch: 82	[0/8000 (0%)]	Loss: 0.624937
1584	Train Epoch: 82	[1000/8000 (12%)]	Loss: 0.663934
1585	Train Epoch: 82	[2000/8000 (25%)]	Loss: 0.800586
1586	Train Epoch: 82	[3000/8000 (38%)]	Loss: 0.655088
1587	Train Epoch: 82	[4000/8000 (50%)]	Loss: 0.775878
1588	Train Epoch: 82	[5000/8000 (62%)]	Loss: 0.729753
1589	Train Epoch: 82	[6000/8000 (75%)]	Loss: 0.655685
1590	Train Epoch: 82	[7000/8000 (88%)]	Loss: 0.666793
1591			
1592	Test set:	Avg. loss: 0.4751, Accuracy: 1713/2000 (85.650%)	
1593			
1594	Train Epoch: 83	[0/8000 (0%)]	Loss: 0.641886
1595	Train Epoch: 83	[1000/8000 (12%)]	Loss: 0.734460
1596	Train Epoch: 83	[2000/8000 (25%)]	Loss: 0.887509
1597	Train Epoch: 83	[3000/8000 (38%)]	Loss: 0.699601
1598	Train Epoch: 83	[4000/8000 (50%)]	Loss: 0.857248
1599	Train Epoch: 83	[5000/8000 (62%)]	Loss: 0.783161
1600	Train Epoch: 83	[6000/8000 (75%)]	Loss: 0.723887
1601	Train Epoch: 83	[7000/8000 (88%)]	Loss: 0.682613
1602			
1603	Test set:	Avg. loss: 0.4681, Accuracy: 1728/2000 (86.400%)	
1604			
1605	Train Epoch: 84	[0/8000 (0%)]	Loss: 0.602706
1606	Train Epoch: 84	[1000/8000 (12%)]	Loss: 0.612005
1607	Train Epoch: 84	[2000/8000 (25%)]	Loss: 0.657681
1608	Train Epoch: 84	[3000/8000 (38%)]	Loss: 0.647725
1609	Train Epoch: 84	[4000/8000 (50%)]	Loss: 0.796872
1610	Train Epoch: 84	[5000/8000 (62%)]	Loss: 0.800109
1611	Train Epoch: 84	[6000/8000 (75%)]	Loss: 0.709350
1612	Train Epoch: 84	[7000/8000 (88%)]	Loss: 0.681615
1613			
1614	Test set:	Avg. loss: 0.4898, Accuracy: 1699/2000 (84.950%)	
1615			
1616	Train Epoch: 85	[0/8000 (0%)]	Loss: 0.693131
1617	Train Epoch: 85	[1000/8000 (12%)]	Loss: 0.621456
1618	Train Epoch: 85	[2000/8000 (25%)]	Loss: 0.621136
1619	Train Epoch: 85	[3000/8000 (38%)]	Loss: 0.703652
1620	Train Epoch: 85	[4000/8000 (50%)]	Loss: 0.781502

1621	Train Epoch: 85 [5000/8000 (62%)]	Loss: 0.902799
1622	Train Epoch: 85 [6000/8000 (75%)]	Loss: 0.720060
1623	Train Epoch: 85 [7000/8000 (88%)]	Loss: 0.634532
1624		
1625	Test set: Avg. loss: 0.4710, Accuracy: 1715/2000 (85.750%)	
1626		
1627	Train Epoch: 86 [0/8000 (0%)]	Loss: 0.632986
1628	Train Epoch: 86 [1000/8000 (12%)]	Loss: 0.653214
1629	Train Epoch: 86 [2000/8000 (25%)]	Loss: 0.625139
1630	Train Epoch: 86 [3000/8000 (38%)]	Loss: 0.750767
1631	Train Epoch: 86 [4000/8000 (50%)]	Loss: 0.835665
1632	Train Epoch: 86 [5000/8000 (62%)]	Loss: 0.715790
1633	Train Epoch: 86 [6000/8000 (75%)]	Loss: 0.737363
1634	Train Epoch: 86 [7000/8000 (88%)]	Loss: 0.596212
1635		
1636	Test set: Avg. loss: 0.4776, Accuracy: 1716/2000 (85.800%)	
1637		
1638	Patience exceeded, concluding training after epoch 86	
1639	Train Epoch: 1 [0/8000 (0%)]	Loss: 2.295352
1640	Train Epoch: 1 [1000/8000 (12%)]	Loss: 2.312019
1641	Train Epoch: 1 [2000/8000 (25%)]	Loss: 2.292641
1642	Train Epoch: 1 [3000/8000 (38%)]	Loss: 2.321139
1643	Train Epoch: 1 [4000/8000 (50%)]	Loss: 2.300077
1644	Train Epoch: 1 [5000/8000 (62%)]	Loss: 2.299827
1645	Train Epoch: 1 [6000/8000 (75%)]	Loss: 2.291975
1646	Train Epoch: 1 [7000/8000 (88%)]	Loss: 2.301480
1647		
1648	Test set: Avg. loss: 2.3000, Accuracy: 207/2000 (10.350%)	
1649		
1650	New best test_loss: 2.300006151199341!	
1651	Train Epoch: 2 [0/8000 (0%)]	Loss: 2.300079
1652	Train Epoch: 2 [1000/8000 (12%)]	Loss: 2.316370
1653	Train Epoch: 2 [2000/8000 (25%)]	Loss: 2.288820
1654	Train Epoch: 2 [3000/8000 (38%)]	Loss: 2.312574
1655	Train Epoch: 2 [4000/8000 (50%)]	Loss: 2.296236
1656	Train Epoch: 2 [5000/8000 (62%)]	Loss: 2.302367
1657	Train Epoch: 2 [6000/8000 (75%)]	Loss: 2.297772

1658	Train Epoch: 2 [7000/8000 (88%)]	Loss: 2.304250
1659		
1660	Test set: Avg. loss: 2.2983, Accuracy: 289/2000 (14 .450%)	
1661		
1662	New best test_loss: 2.2983086109161377!	
1663	Train Epoch: 3 [0/8000 (0%)]	Loss: 2.292755
1664	Train Epoch: 3 [1000/8000 (12%)]	Loss: 2.292120
1665	Train Epoch: 3 [2000/8000 (25%)]	Loss: 2.280803
1666	Train Epoch: 3 [3000/8000 (38%)]	Loss: 2.299277
1667	Train Epoch: 3 [4000/8000 (50%)]	Loss: 2.300407
1668	Train Epoch: 3 [5000/8000 (62%)]	Loss: 2.297795
1669	Train Epoch: 3 [6000/8000 (75%)]	Loss: 2.309674
1670	Train Epoch: 3 [7000/8000 (88%)]	Loss: 2.295827
1671		
1672	Test set: Avg. loss: 2.2970, Accuracy: 367/2000 (18 .350%)	
1673		
1674	New best test_loss: 2.2969810962677!	
1675	Train Epoch: 4 [0/8000 (0%)]	Loss: 2.294663
1676	Train Epoch: 4 [1000/8000 (12%)]	Loss: 2.303363
1677	Train Epoch: 4 [2000/8000 (25%)]	Loss: 2.291387
1678	Train Epoch: 4 [3000/8000 (38%)]	Loss: 2.297955
1679	Train Epoch: 4 [4000/8000 (50%)]	Loss: 2.296319
1680	Train Epoch: 4 [5000/8000 (62%)]	Loss: 2.301538
1681	Train Epoch: 4 [6000/8000 (75%)]	Loss: 2.312913
1682	Train Epoch: 4 [7000/8000 (88%)]	Loss: 2.302438
1683		
1684	Test set: Avg. loss: 2.2955, Accuracy: 408/2000 (20 .400%)	
1685		
1686	New best test_loss: 2.295534610748291!	
1687	Train Epoch: 5 [0/8000 (0%)]	Loss: 2.288555
1688	Train Epoch: 5 [1000/8000 (12%)]	Loss: 2.300073
1689	Train Epoch: 5 [2000/8000 (25%)]	Loss: 2.290732
1690	Train Epoch: 5 [3000/8000 (38%)]	Loss: 2.297309
1691	Train Epoch: 5 [4000/8000 (50%)]	Loss: 2.292604
1692	Train Epoch: 5 [5000/8000 (62%)]	Loss: 2.304757
1693	Train Epoch: 5 [6000/8000 (75%)]	Loss: 2.306601
1694	Train Epoch: 5 [7000/8000 (88%)]	Loss: 2.297149
1695		

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1696 Test set: Avg. loss: 2.2942, Accuracy: 357/2000 (17
.850%)
1697
1698 New best test_loss: 2.294196128845215!
1699 Train Epoch: 6 [0/8000 (0%)] Loss: 2.290650
1700 Train Epoch: 6 [1000/8000 (12%)] Loss: 2.298727
1701 Train Epoch: 6 [2000/8000 (25%)] Loss: 2.291595
1702 Train Epoch: 6 [3000/8000 (38%)] Loss: 2.294023
1703 Train Epoch: 6 [4000/8000 (50%)] Loss: 2.294543
1704 Train Epoch: 6 [5000/8000 (62%)] Loss: 2.285892
1705 Train Epoch: 6 [6000/8000 (75%)] Loss: 2.308000
1706 Train Epoch: 6 [7000/8000 (88%)] Loss: 2.308481
1707
1708 Test set: Avg. loss: 2.2930, Accuracy: 217/2000 (10
.850%)
1709
1710 New best test_loss: 2.292994976043701!
1711 Train Epoch: 7 [0/8000 (0%)] Loss: 2.291377
1712 Train Epoch: 7 [1000/8000 (12%)] Loss: 2.304961
1713 Train Epoch: 7 [2000/8000 (25%)] Loss: 2.288287
1714 Train Epoch: 7 [3000/8000 (38%)] Loss: 2.297418
1715 Train Epoch: 7 [4000/8000 (50%)] Loss: 2.291182
1716 Train Epoch: 7 [5000/8000 (62%)] Loss: 2.299428
1717 Train Epoch: 7 [6000/8000 (75%)] Loss: 2.305689
1718 Train Epoch: 7 [7000/8000 (88%)] Loss: 2.302662
1719
1720 Test set: Avg. loss: 2.2914, Accuracy: 230/2000 (11
.500%)
1721
1722 New best test_loss: 2.2913553714752197!
1723 Train Epoch: 8 [0/8000 (0%)] Loss: 2.289684
1724 Train Epoch: 8 [1000/8000 (12%)] Loss: 2.299745
1725 Train Epoch: 8 [2000/8000 (25%)] Loss: 2.291821
1726 Train Epoch: 8 [3000/8000 (38%)] Loss: 2.294473
1727 Train Epoch: 8 [4000/8000 (50%)] Loss: 2.286562
1728 Train Epoch: 8 [5000/8000 (62%)] Loss: 2.288539
1729 Train Epoch: 8 [6000/8000 (75%)] Loss: 2.294983
1730 Train Epoch: 8 [7000/8000 (88%)] Loss: 2.291646
1731
1732 Test set: Avg. loss: 2.2892, Accuracy: 248/2000 (12
.400%)
```

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1733
1734 New best test_loss: 2.289200782775879!
1735 Train Epoch: 9 [0/8000 (0%)] Loss: 2.292459
1736 Train Epoch: 9 [1000/8000 (12%)] Loss: 2.291348
1737 Train Epoch: 9 [2000/8000 (25%)] Loss: 2.292060
1738 Train Epoch: 9 [3000/8000 (38%)] Loss: 2.284958
1739 Train Epoch: 9 [4000/8000 (50%)] Loss: 2.284657
1740 Train Epoch: 9 [5000/8000 (62%)] Loss: 2.286973
1741 Train Epoch: 9 [6000/8000 (75%)] Loss: 2.290893
1742 Train Epoch: 9 [7000/8000 (88%)] Loss: 2.297814
1743
1744 Test set: Avg. loss: 2.2858, Accuracy: 285/2000 (14
.250%)
1745
1746 New best test_loss: 2.2857680320739746!
1747 Train Epoch: 10 [0/8000 (0%)] Loss: 2.294116
1748 Train Epoch: 10 [1000/8000 (12%)] Loss: 2.296581
1749 Train Epoch: 10 [2000/8000 (25%)] Loss: 2.271594
1750 Train Epoch: 10 [3000/8000 (38%)] Loss: 2.293415
1751 Train Epoch: 10 [4000/8000 (50%)] Loss: 2.283953
1752 Train Epoch: 10 [5000/8000 (62%)] Loss: 2.278949
1753 Train Epoch: 10 [6000/8000 (75%)] Loss: 2.295740
1754 Train Epoch: 10 [7000/8000 (88%)] Loss: 2.282931
1755
1756 Test set: Avg. loss: 2.2815, Accuracy: 289/2000 (14
.450%)
1757
1758 New best test_loss: 2.2815473079681396!
1759 Train Epoch: 11 [0/8000 (0%)] Loss: 2.268939
1760 Train Epoch: 11 [1000/8000 (12%)] Loss: 2.281582
1761 Train Epoch: 11 [2000/8000 (25%)] Loss: 2.278226
1762 Train Epoch: 11 [3000/8000 (38%)] Loss: 2.285693
1763 Train Epoch: 11 [4000/8000 (50%)] Loss: 2.278085
1764 Train Epoch: 11 [5000/8000 (62%)] Loss: 2.287358
1765 Train Epoch: 11 [6000/8000 (75%)] Loss: 2.295487
1766 Train Epoch: 11 [7000/8000 (88%)] Loss: 2.294477
1767
1768 Test set: Avg. loss: 2.2772, Accuracy: 415/2000 (20
.750%)
1769
1770 New best test_loss: 2.2771527767181396!
```

1771	Train Epoch: 12 [0/8000 (0%)]	Loss: 2.280259
1772	Train Epoch: 12 [1000/8000 (12%)]	Loss: 2.283852
1773	Train Epoch: 12 [2000/8000 (25%)]	Loss: 2.261467
1774	Train Epoch: 12 [3000/8000 (38%)]	Loss: 2.281844
1775	Train Epoch: 12 [4000/8000 (50%)]	Loss: 2.261845
1776	Train Epoch: 12 [5000/8000 (62%)]	Loss: 2.264294
1777	Train Epoch: 12 [6000/8000 (75%)]	Loss: 2.277763
1778	Train Epoch: 12 [7000/8000 (88%)]	Loss: 2.273152
1779		
1780	Test set: Avg. loss: 2.2694, Accuracy: 538/2000 (26.900%)	
1781		
1782	New best test_loss: 2.26944637298584!	
1783	Train Epoch: 13 [0/8000 (0%)]	Loss: 2.270196
1784	Train Epoch: 13 [1000/8000 (12%)]	Loss: 2.278298
1785	Train Epoch: 13 [2000/8000 (25%)]	Loss: 2.270732
1786	Train Epoch: 13 [3000/8000 (38%)]	Loss: 2.260082
1787	Train Epoch: 13 [4000/8000 (50%)]	Loss: 2.289854
1788	Train Epoch: 13 [5000/8000 (62%)]	Loss: 2.263494
1789	Train Epoch: 13 [6000/8000 (75%)]	Loss: 2.298696
1790	Train Epoch: 13 [7000/8000 (88%)]	Loss: 2.277027
1791		
1792	Test set: Avg. loss: 2.2593, Accuracy: 547/2000 (27.350%)	
1793		
1794	New best test_loss: 2.2592995166778564!	
1795	Train Epoch: 14 [0/8000 (0%)]	Loss: 2.250492
1796	Train Epoch: 14 [1000/8000 (12%)]	Loss: 2.256642
1797	Train Epoch: 14 [2000/8000 (25%)]	Loss: 2.255962
1798	Train Epoch: 14 [3000/8000 (38%)]	Loss: 2.262449
1799	Train Epoch: 14 [4000/8000 (50%)]	Loss: 2.255140
1800	Train Epoch: 14 [5000/8000 (62%)]	Loss: 2.239690
1801	Train Epoch: 14 [6000/8000 (75%)]	Loss: 2.258478
1802	Train Epoch: 14 [7000/8000 (88%)]	Loss: 2.276687
1803		
1804	Test set: Avg. loss: 2.2422, Accuracy: 548/2000 (27.400%)	
1805		
1806	New best test_loss: 2.2421796321868896!	
1807	Train Epoch: 15 [0/8000 (0%)]	Loss: 2.237661
1808	Train Epoch: 15 [1000/8000 (12%)]	Loss: 2.240335

1809	Train Epoch: 15	[2000/8000 (25%)]	Loss: 2.220763
1810	Train Epoch: 15	[3000/8000 (38%)]	Loss: 2.252814
1811	Train Epoch: 15	[4000/8000 (50%)]	Loss: 2.253068
1812	Train Epoch: 15	[5000/8000 (62%)]	Loss: 2.211522
1813	Train Epoch: 15	[6000/8000 (75%)]	Loss: 2.261995
1814	Train Epoch: 15	[7000/8000 (88%)]	Loss: 2.240575
1815			
1816	Test set:	Avg. loss: 2.2152, Accuracy: 600/2000 (30.000%)	
1817			
1818	New best test_loss:	2.2151942253112793!	
1819	Train Epoch: 16	[0/8000 (0%)]	Loss: 2.214438
1820	Train Epoch: 16	[1000/8000 (12%)]	Loss: 2.253860
1821	Train Epoch: 16	[2000/8000 (25%)]	Loss: 2.229808
1822	Train Epoch: 16	[3000/8000 (38%)]	Loss: 2.229257
1823	Train Epoch: 16	[4000/8000 (50%)]	Loss: 2.227404
1824	Train Epoch: 16	[5000/8000 (62%)]	Loss: 2.193847
1825	Train Epoch: 16	[6000/8000 (75%)]	Loss: 2.214984
1826	Train Epoch: 16	[7000/8000 (88%)]	Loss: 2.228964
1827			
1828	Test set:	Avg. loss: 2.1691, Accuracy: 650/2000 (32.500%)	
1829			
1830	New best test_loss:	2.16910719871521!	
1831	Train Epoch: 17	[0/8000 (0%)]	Loss: 2.196752
1832	Train Epoch: 17	[1000/8000 (12%)]	Loss: 2.161949
1833	Train Epoch: 17	[2000/8000 (25%)]	Loss: 2.149137
1834	Train Epoch: 17	[3000/8000 (38%)]	Loss: 2.217511
1835	Train Epoch: 17	[4000/8000 (50%)]	Loss: 2.192031
1836	Train Epoch: 17	[5000/8000 (62%)]	Loss: 2.113281
1837	Train Epoch: 17	[6000/8000 (75%)]	Loss: 2.163352
1838	Train Epoch: 17	[7000/8000 (88%)]	Loss: 2.191193
1839			
1840	Test set:	Avg. loss: 2.0886, Accuracy: 618/2000 (30.900%)	
1841			
1842	New best test_loss:	2.088646411895752!	
1843	Train Epoch: 18	[0/8000 (0%)]	Loss: 2.105508
1844	Train Epoch: 18	[1000/8000 (12%)]	Loss: 2.097592
1845	Train Epoch: 18	[2000/8000 (25%)]	Loss: 2.040094
1846	Train Epoch: 18	[3000/8000 (38%)]	Loss: 2.108255

1847	Train Epoch: 18	[4000/8000 (50%)]	Loss: 2.104704
1848	Train Epoch: 18	[5000/8000 (62%)]	Loss: 2.057148
1849	Train Epoch: 18	[6000/8000 (75%)]	Loss: 2.073571
1850	Train Epoch: 18	[7000/8000 (88%)]	Loss: 2.074472
1851			
1852	Test set:	Avg. loss: 1.9633, Accuracy: 713/2000 (35.650%)	
1853			
1854	New best test_loss:	1.9632647037506104!	
1855	Train Epoch: 19	[0/8000 (0%)]	Loss: 2.039843
1856	Train Epoch: 19	[1000/8000 (12%)]	Loss: 2.084808
1857	Train Epoch: 19	[2000/8000 (25%)]	Loss: 1.992051
1858	Train Epoch: 19	[3000/8000 (38%)]	Loss: 1.953526
1859	Train Epoch: 19	[4000/8000 (50%)]	Loss: 1.991814
1860	Train Epoch: 19	[5000/8000 (62%)]	Loss: 1.993651
1861	Train Epoch: 19	[6000/8000 (75%)]	Loss: 2.007771
1862	Train Epoch: 19	[7000/8000 (88%)]	Loss: 1.987405
1863			
1864	Test set:	Avg. loss: 1.8206, Accuracy: 796/2000 (39.800%)	
1865			
1866	New best test_loss:	1.8206247091293335!	
1867	Train Epoch: 20	[0/8000 (0%)]	Loss: 1.890367
1868	Train Epoch: 20	[1000/8000 (12%)]	Loss: 1.907061
1869	Train Epoch: 20	[2000/8000 (25%)]	Loss: 1.838518
1870	Train Epoch: 20	[3000/8000 (38%)]	Loss: 1.962759
1871	Train Epoch: 20	[4000/8000 (50%)]	Loss: 1.841164
1872	Train Epoch: 20	[5000/8000 (62%)]	Loss: 1.821239
1873	Train Epoch: 20	[6000/8000 (75%)]	Loss: 1.915218
1874	Train Epoch: 20	[7000/8000 (88%)]	Loss: 1.868304
1875			
1876	Test set:	Avg. loss: 1.6728, Accuracy: 1021/2000 (51.050%)	
1877			
1878	New best test_loss:	1.6727555990219116!	
1879	Train Epoch: 21	[0/8000 (0%)]	Loss: 1.842312
1880	Train Epoch: 21	[1000/8000 (12%)]	Loss: 1.816160
1881	Train Epoch: 21	[2000/8000 (25%)]	Loss: 1.736567
1882	Train Epoch: 21	[3000/8000 (38%)]	Loss: 1.792819
1883	Train Epoch: 21	[4000/8000 (50%)]	Loss: 1.756270
1884	Train Epoch: 21	[5000/8000 (62%)]	Loss: 1.741331

1885	Train Epoch: 21 [6000/8000 (75%)]	Loss: 1.744979
1886	Train Epoch: 21 [7000/8000 (88%)]	Loss: 1.795560
1887		
1888	Test set: Avg. loss: 1.5552, Accuracy: 1073/2000 (53.650%)	
1889		
1890	New best test_loss: 1.5552314519882202!	
1891	Train Epoch: 22 [0/8000 (0%)]	Loss: 1.723962
1892	Train Epoch: 22 [1000/8000 (12%)]	Loss: 1.786265
1893	Train Epoch: 22 [2000/8000 (25%)]	Loss: 1.654733
1894	Train Epoch: 22 [3000/8000 (38%)]	Loss: 1.812226
1895	Train Epoch: 22 [4000/8000 (50%)]	Loss: 1.663175
1896	Train Epoch: 22 [5000/8000 (62%)]	Loss: 1.661694
1897	Train Epoch: 22 [6000/8000 (75%)]	Loss: 1.663979
1898	Train Epoch: 22 [7000/8000 (88%)]	Loss: 1.637592
1899		
1900	Test set: Avg. loss: 1.4282, Accuracy: 1152/2000 (57.600%)	
1901		
1902	New best test_loss: 1.428210735321045!	
1903	Train Epoch: 23 [0/8000 (0%)]	Loss: 1.733758
1904	Train Epoch: 23 [1000/8000 (12%)]	Loss: 1.645656
1905	Train Epoch: 23 [2000/8000 (25%)]	Loss: 1.510536
1906	Train Epoch: 23 [3000/8000 (38%)]	Loss: 1.642407
1907	Train Epoch: 23 [4000/8000 (50%)]	Loss: 1.630961
1908	Train Epoch: 23 [5000/8000 (62%)]	Loss: 1.569460
1909	Train Epoch: 23 [6000/8000 (75%)]	Loss: 1.595924
1910	Train Epoch: 23 [7000/8000 (88%)]	Loss: 1.546028
1911		
1912	Test set: Avg. loss: 1.3247, Accuracy: 1262/2000 (63.100%)	
1913		
1914	New best test_loss: 1.3246616125106812!	
1915	Train Epoch: 24 [0/8000 (0%)]	Loss: 1.524679
1916	Train Epoch: 24 [1000/8000 (12%)]	Loss: 1.543303
1917	Train Epoch: 24 [2000/8000 (25%)]	Loss: 1.382532
1918	Train Epoch: 24 [3000/8000 (38%)]	Loss: 1.625319
1919	Train Epoch: 24 [4000/8000 (50%)]	Loss: 1.611974
1920	Train Epoch: 24 [5000/8000 (62%)]	Loss: 1.444068
1921	Train Epoch: 24 [6000/8000 (75%)]	Loss: 1.507844
1922	Train Epoch: 24 [7000/8000 (88%)]	Loss: 1.521617

1923
1924 Test set: Avg. loss: 1.2210, Accuracy: 1284/2000 (64.200%)
1925
1926 New best test_loss: 1.2209665775299072!
1927 Train Epoch: 25 [0/8000 (0%)] Loss: 1.499144
1928 Train Epoch: 25 [1000/8000 (12%)] Loss: 1.424212
1929 Train Epoch: 25 [2000/8000 (25%)] Loss: 1.364656
1930 Train Epoch: 25 [3000/8000 (38%)] Loss: 1.574206
1931 Train Epoch: 25 [4000/8000 (50%)] Loss: 1.528397
1932 Train Epoch: 25 [5000/8000 (62%)] Loss: 1.399791
1933 Train Epoch: 25 [6000/8000 (75%)] Loss: 1.512369
1934 Train Epoch: 25 [7000/8000 (88%)] Loss: 1.325485
1935
1936 Test set: Avg. loss: 1.1308, Accuracy: 1387/2000 (69.350%)
1937
1938 New best test_loss: 1.1307638883590698!
1939 Train Epoch: 26 [0/8000 (0%)] Loss: 1.356994
1940 Train Epoch: 26 [1000/8000 (12%)] Loss: 1.376179
1941 Train Epoch: 26 [2000/8000 (25%)] Loss: 1.258760
1942 Train Epoch: 26 [3000/8000 (38%)] Loss: 1.384294
1943 Train Epoch: 26 [4000/8000 (50%)] Loss: 1.315587
1944 Train Epoch: 26 [5000/8000 (62%)] Loss: 1.383131
1945 Train Epoch: 26 [6000/8000 (75%)] Loss: 1.396764
1946 Train Epoch: 26 [7000/8000 (88%)] Loss: 1.401232
1947
1948 Test set: Avg. loss: 1.0443, Accuracy: 1423/2000 (71.150%)
1949
1950 New best test_loss: 1.0443495512008667!
1951 Train Epoch: 27 [0/8000 (0%)] Loss: 1.311522
1952 Train Epoch: 27 [1000/8000 (12%)] Loss: 1.353337
1953 Train Epoch: 27 [2000/8000 (25%)] Loss: 1.160547
1954 Train Epoch: 27 [3000/8000 (38%)] Loss: 1.455108
1955 Train Epoch: 27 [4000/8000 (50%)] Loss: 1.282144
1956 Train Epoch: 27 [5000/8000 (62%)] Loss: 1.365704
1957 Train Epoch: 27 [6000/8000 (75%)] Loss: 1.382071
1958 Train Epoch: 27 [7000/8000 (88%)] Loss: 1.281931
1959
1960 Test set: Avg. loss: 1.0249, Accuracy: 1424/2000 (

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1960 71.200%)  
1961  
1962 New best test_loss: 1.0248563289642334!  
1963 Train Epoch: 28 [0/8000 (0%)] Loss: 1.298310  
1964 Train Epoch: 28 [1000/8000 (12%)] Loss: 1.310893  
1965 Train Epoch: 28 [2000/8000 (25%)] Loss: 1.024688  
1966 Train Epoch: 28 [3000/8000 (38%)] Loss: 1.295654  
1967 Train Epoch: 28 [4000/8000 (50%)] Loss: 1.304879  
1968 Train Epoch: 28 [5000/8000 (62%)] Loss: 1.182054  
1969 Train Epoch: 28 [6000/8000 (75%)] Loss: 1.271838  
1970 Train Epoch: 28 [7000/8000 (88%)] Loss: 1.169138  
1971  
1972 Test set: Avg. loss: 0.9488, Accuracy: 1444/2000 (72.200%)  
1973  
1974 New best test_loss: 0.9487667083740234!  
1975 Train Epoch: 29 [0/8000 (0%)] Loss: 1.124010  
1976 Train Epoch: 29 [1000/8000 (12%)] Loss: 1.066240  
1977 Train Epoch: 29 [2000/8000 (25%)] Loss: 1.103484  
1978 Train Epoch: 29 [3000/8000 (38%)] Loss: 1.253446  
1979 Train Epoch: 29 [4000/8000 (50%)] Loss: 1.253828  
1980 Train Epoch: 29 [5000/8000 (62%)] Loss: 1.206903  
1981 Train Epoch: 29 [6000/8000 (75%)] Loss: 1.367453  
1982 Train Epoch: 29 [7000/8000 (88%)] Loss: 1.170237  
1983  
1984 Test set: Avg. loss: 0.8937, Accuracy: 1457/2000 (72.850%)  
1985  
1986 New best test_loss: 0.893673300743103!  
1987 Train Epoch: 30 [0/8000 (0%)] Loss: 1.083314  
1988 Train Epoch: 30 [1000/8000 (12%)] Loss: 1.133233  
1989 Train Epoch: 30 [2000/8000 (25%)] Loss: 1.150938  
1990 Train Epoch: 30 [3000/8000 (38%)] Loss: 1.278073  
1991 Train Epoch: 30 [4000/8000 (50%)] Loss: 1.239436  
1992 Train Epoch: 30 [5000/8000 (62%)] Loss: 1.228464  
1993 Train Epoch: 30 [6000/8000 (75%)] Loss: 1.280239  
1994 Train Epoch: 30 [7000/8000 (88%)] Loss: 1.123206  
1995  
1996 Test set: Avg. loss: 0.8540, Accuracy: 1480/2000 (74.000%)  
1997
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1998 New best test_loss: 0.854022741317749!
1999 Train Epoch: 31 [0/8000 (0%)] Loss: 1.133880
2000 Train Epoch: 31 [1000/8000 (12%)] Loss: 1.256398
2001 Train Epoch: 31 [2000/8000 (25%)] Loss: 1.058850
2002 Train Epoch: 31 [3000/8000 (38%)] Loss: 1.233555
2003 Train Epoch: 31 [4000/8000 (50%)] Loss: 1.122066
2004 Train Epoch: 31 [5000/8000 (62%)] Loss: 1.248888
2005 Train Epoch: 31 [6000/8000 (75%)] Loss: 1.127276
2006 Train Epoch: 31 [7000/8000 (88%)] Loss: 1.146815
2007
2008 Test set: Avg. loss: 0.8503, Accuracy: 1498/2000 (74.900%)
2009
2010 New best test_loss: 0.8503212928771973!
2011 Train Epoch: 32 [0/8000 (0%)] Loss: 1.141912
2012 Train Epoch: 32 [1000/8000 (12%)] Loss: 1.204018
2013 Train Epoch: 32 [2000/8000 (25%)] Loss: 0.912992
2014 Train Epoch: 32 [3000/8000 (38%)] Loss: 1.068062
2015 Train Epoch: 32 [4000/8000 (50%)] Loss: 1.164801
2016 Train Epoch: 32 [5000/8000 (62%)] Loss: 1.241137
2017 Train Epoch: 32 [6000/8000 (75%)] Loss: 1.194997
2018 Train Epoch: 32 [7000/8000 (88%)] Loss: 1.020669
2019
2020 Test set: Avg. loss: 0.7921, Accuracy: 1521/2000 (76.050%)
2021
2022 New best test_loss: 0.7920653223991394!
2023 Train Epoch: 33 [0/8000 (0%)] Loss: 1.051251
2024 Train Epoch: 33 [1000/8000 (12%)] Loss: 0.927486
2025 Train Epoch: 33 [2000/8000 (25%)] Loss: 0.973287
2026 Train Epoch: 33 [3000/8000 (38%)] Loss: 1.173137
2027 Train Epoch: 33 [4000/8000 (50%)] Loss: 1.155870
2028 Train Epoch: 33 [5000/8000 (62%)] Loss: 1.093795
2029 Train Epoch: 33 [6000/8000 (75%)] Loss: 1.107013
2030 Train Epoch: 33 [7000/8000 (88%)] Loss: 1.087731
2031
2032 Test set: Avg. loss: 0.7626, Accuracy: 1554/2000 (77.700%)
2033
2034 New best test_loss: 0.7626188397407532!
2035 Train Epoch: 34 [0/8000 (0%)] Loss: 1.076792
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2036	Train Epoch: 34	[1000/8000 (12%)]	Loss: 1.069195
2037	Train Epoch: 34	[2000/8000 (25%)]	Loss: 0.960995
2038	Train Epoch: 34	[3000/8000 (38%)]	Loss: 1.116498
2039	Train Epoch: 34	[4000/8000 (50%)]	Loss: 1.033871
2040	Train Epoch: 34	[5000/8000 (62%)]	Loss: 1.068398
2041	Train Epoch: 34	[6000/8000 (75%)]	Loss: 1.148368
2042	Train Epoch: 34	[7000/8000 (88%)]	Loss: 1.111800
2043			
2044	Test set:	Avg. loss: 0.7480, Accuracy: 1545/2000 (77.250%)	
2045			
2046	New best test_loss: 0.7480242848396301!		
2047	Train Epoch: 35	[0/8000 (0%)]	Loss: 1.047364
2048	Train Epoch: 35	[1000/8000 (12%)]	Loss: 1.087984
2049	Train Epoch: 35	[2000/8000 (25%)]	Loss: 1.043699
2050	Train Epoch: 35	[3000/8000 (38%)]	Loss: 1.157100
2051	Train Epoch: 35	[4000/8000 (50%)]	Loss: 0.971811
2052	Train Epoch: 35	[5000/8000 (62%)]	Loss: 1.102052
2053	Train Epoch: 35	[6000/8000 (75%)]	Loss: 1.193741
2054	Train Epoch: 35	[7000/8000 (88%)]	Loss: 0.926414
2055			
2056	Test set:	Avg. loss: 0.7481, Accuracy: 1557/2000 (77.850%)	
2057			
2058	Train Epoch: 36	[0/8000 (0%)]	Loss: 0.967777
2059	Train Epoch: 36	[1000/8000 (12%)]	Loss: 1.103637
2060	Train Epoch: 36	[2000/8000 (25%)]	Loss: 0.886124
2061	Train Epoch: 36	[3000/8000 (38%)]	Loss: 1.134320
2062	Train Epoch: 36	[4000/8000 (50%)]	Loss: 1.084582
2063	Train Epoch: 36	[5000/8000 (62%)]	Loss: 1.165156
2064	Train Epoch: 36	[6000/8000 (75%)]	Loss: 0.977945
2065	Train Epoch: 36	[7000/8000 (88%)]	Loss: 0.989178
2066			
2067	Test set:	Avg. loss: 0.7120, Accuracy: 1584/2000 (79.200%)	
2068			
2069	New best test_loss: 0.7120466828346252!		
2070	Train Epoch: 37	[0/8000 (0%)]	Loss: 0.925106
2071	Train Epoch: 37	[1000/8000 (12%)]	Loss: 1.052498
2072	Train Epoch: 37	[2000/8000 (25%)]	Loss: 0.888643
2073	Train Epoch: 37	[3000/8000 (38%)]	Loss: 1.109485

2074	Train Epoch: 37	[4000/8000 (50%)]	Loss: 1.010271
2075	Train Epoch: 37	[5000/8000 (62%)]	Loss: 1.215585
2076	Train Epoch: 37	[6000/8000 (75%)]	Loss: 1.031239
2077	Train Epoch: 37	[7000/8000 (88%)]	Loss: 1.099260
2078			
2079	Test set:	Avg. loss: 0.6858, Accuracy: 1577/2000 (78.850%)	
2080			
2081	New best test_loss:	0.6858378648757935!	
2082	Train Epoch: 38	[0/8000 (0%)]	Loss: 0.840733
2083	Train Epoch: 38	[1000/8000 (12%)]	Loss: 0.927118
2084	Train Epoch: 38	[2000/8000 (25%)]	Loss: 0.858478
2085	Train Epoch: 38	[3000/8000 (38%)]	Loss: 1.048324
2086	Train Epoch: 38	[4000/8000 (50%)]	Loss: 0.989587
2087	Train Epoch: 38	[5000/8000 (62%)]	Loss: 1.030038
2088	Train Epoch: 38	[6000/8000 (75%)]	Loss: 0.936275
2089	Train Epoch: 38	[7000/8000 (88%)]	Loss: 1.080313
2090			
2091	Test set:	Avg. loss: 0.7000, Accuracy: 1593/2000 (79.650%)	
2092			
2093	Train Epoch: 39	[0/8000 (0%)]	Loss: 0.948340
2094	Train Epoch: 39	[1000/8000 (12%)]	Loss: 0.904774
2095	Train Epoch: 39	[2000/8000 (25%)]	Loss: 0.821347
2096	Train Epoch: 39	[3000/8000 (38%)]	Loss: 0.920819
2097	Train Epoch: 39	[4000/8000 (50%)]	Loss: 1.051082
2098	Train Epoch: 39	[5000/8000 (62%)]	Loss: 1.009537
2099	Train Epoch: 39	[6000/8000 (75%)]	Loss: 1.092950
2100	Train Epoch: 39	[7000/8000 (88%)]	Loss: 0.882101
2101			
2102	Test set:	Avg. loss: 0.6827, Accuracy: 1587/2000 (79.350%)	
2103			
2104	New best test_loss:	0.682744562625885!	
2105	Train Epoch: 40	[0/8000 (0%)]	Loss: 0.911442
2106	Train Epoch: 40	[1000/8000 (12%)]	Loss: 1.014903
2107	Train Epoch: 40	[2000/8000 (25%)]	Loss: 0.968234
2108	Train Epoch: 40	[3000/8000 (38%)]	Loss: 1.049596
2109	Train Epoch: 40	[4000/8000 (50%)]	Loss: 0.925088
2110	Train Epoch: 40	[5000/8000 (62%)]	Loss: 1.031804
2111	Train Epoch: 40	[6000/8000 (75%)]	Loss: 1.035082

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2112 Train Epoch: 40 [7000/8000 (88%)] Loss: 0.935427
2113
2114 Test set: Avg. loss: 0.6548, Accuracy: 1608/2000 (80.400%)
2115
2116 New best test_loss: 0.6547917127609253!
2117 Train Epoch: 41 [0/8000 (0%)] Loss: 0.925169
2118 Train Epoch: 41 [1000/8000 (12%)] Loss: 0.991207
2119 Train Epoch: 41 [2000/8000 (25%)] Loss: 0.818156
2120 Train Epoch: 41 [3000/8000 (38%)] Loss: 0.923544
2121 Train Epoch: 41 [4000/8000 (50%)] Loss: 1.028014
2122 Train Epoch: 41 [5000/8000 (62%)] Loss: 1.139566
2123 Train Epoch: 41 [6000/8000 (75%)] Loss: 1.099582
2124 Train Epoch: 41 [7000/8000 (88%)] Loss: 1.002834
2125
2126 Test set: Avg. loss: 0.6371, Accuracy: 1616/2000 (80.800%)
2127
2128 New best test_loss: 0.6371186971664429!
2129 Train Epoch: 42 [0/8000 (0%)] Loss: 0.916836
2130 Train Epoch: 42 [1000/8000 (12%)] Loss: 0.907023
2131 Train Epoch: 42 [2000/8000 (25%)] Loss: 0.971306
2132 Train Epoch: 42 [3000/8000 (38%)] Loss: 1.008053
2133 Train Epoch: 42 [4000/8000 (50%)] Loss: 1.077691
2134 Train Epoch: 42 [5000/8000 (62%)] Loss: 0.891747
2135 Train Epoch: 42 [6000/8000 (75%)] Loss: 0.952253
2136 Train Epoch: 42 [7000/8000 (88%)] Loss: 1.046385
2137
2138 Test set: Avg. loss: 0.6530, Accuracy: 1624/2000 (81.200%)
2139
2140 Train Epoch: 43 [0/8000 (0%)] Loss: 0.909476
2141 Train Epoch: 43 [1000/8000 (12%)] Loss: 0.804705
2142 Train Epoch: 43 [2000/8000 (25%)] Loss: 0.779501
2143 Train Epoch: 43 [3000/8000 (38%)] Loss: 0.984630
2144 Train Epoch: 43 [4000/8000 (50%)] Loss: 0.977096
2145 Train Epoch: 43 [5000/8000 (62%)] Loss: 1.033661
2146 Train Epoch: 43 [6000/8000 (75%)] Loss: 0.942018
2147 Train Epoch: 43 [7000/8000 (88%)] Loss: 0.797666
2148
2149 Test set: Avg. loss: 0.6139, Accuracy: 1626/2000 (
```

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2149 81.300%)  
2150  
2151 New best test_loss: 0.6138904690742493!  
2152 Train Epoch: 44 [0/8000 (0%)] Loss: 0.884370  
2153 Train Epoch: 44 [1000/8000 (12%)] Loss: 0.953436  
2154 Train Epoch: 44 [2000/8000 (25%)] Loss: 0.833389  
2155 Train Epoch: 44 [3000/8000 (38%)] Loss: 0.867409  
2156 Train Epoch: 44 [4000/8000 (50%)] Loss: 0.874384  
2157 Train Epoch: 44 [5000/8000 (62%)] Loss: 0.983341  
2158 Train Epoch: 44 [6000/8000 (75%)] Loss: 0.937578  
2159 Train Epoch: 44 [7000/8000 (88%)] Loss: 0.933266  
2160  
2161 Test set: Avg. loss: 0.6150, Accuracy: 1631/2000 (81.550%)  
2162  
2163 Train Epoch: 45 [0/8000 (0%)] Loss: 0.894924  
2164 Train Epoch: 45 [1000/8000 (12%)] Loss: 0.819170  
2165 Train Epoch: 45 [2000/8000 (25%)] Loss: 0.832412  
2166 Train Epoch: 45 [3000/8000 (38%)] Loss: 0.975911  
2167 Train Epoch: 45 [4000/8000 (50%)] Loss: 1.001877  
2168 Train Epoch: 45 [5000/8000 (62%)] Loss: 1.069769  
2169 Train Epoch: 45 [6000/8000 (75%)] Loss: 0.997657  
2170 Train Epoch: 45 [7000/8000 (88%)] Loss: 0.899148  
2171  
2172 Test set: Avg. loss: 0.6206, Accuracy: 1644/2000 (82.200%)  
2173  
2174 Train Epoch: 46 [0/8000 (0%)] Loss: 0.942127  
2175 Train Epoch: 46 [1000/8000 (12%)] Loss: 0.879182  
2176 Train Epoch: 46 [2000/8000 (25%)] Loss: 0.868630  
2177 Train Epoch: 46 [3000/8000 (38%)] Loss: 0.832908  
2178 Train Epoch: 46 [4000/8000 (50%)] Loss: 0.894002  
2179 Train Epoch: 46 [5000/8000 (62%)] Loss: 0.791565  
2180 Train Epoch: 46 [6000/8000 (75%)] Loss: 0.948317  
2181 Train Epoch: 46 [7000/8000 (88%)] Loss: 0.805308  
2182  
2183 Test set: Avg. loss: 0.5873, Accuracy: 1645/2000 (82.250%)  
2184  
2185 New best test_loss: 0.587260365486145!  
2186 Train Epoch: 47 [0/8000 (0%)] Loss: 0.820432
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2187	Train Epoch: 47	[1000/8000 (12%)]	Loss: 0.888866
2188	Train Epoch: 47	[2000/8000 (25%)]	Loss: 0.876439
2189	Train Epoch: 47	[3000/8000 (38%)]	Loss: 0.903882
2190	Train Epoch: 47	[4000/8000 (50%)]	Loss: 0.803828
2191	Train Epoch: 47	[5000/8000 (62%)]	Loss: 1.089885
2192	Train Epoch: 47	[6000/8000 (75%)]	Loss: 0.897483
2193	Train Epoch: 47	[7000/8000 (88%)]	Loss: 0.921735
2194			
2195	Test set:	Avg. loss: 0.5929, Accuracy: 1652/2000 (82.600%)	
2196			
2197	Train Epoch: 48	[0/8000 (0%)]	Loss: 0.803775
2198	Train Epoch: 48	[1000/8000 (12%)]	Loss: 0.830425
2199	Train Epoch: 48	[2000/8000 (25%)]	Loss: 0.868141
2200	Train Epoch: 48	[3000/8000 (38%)]	Loss: 0.771221
2201	Train Epoch: 48	[4000/8000 (50%)]	Loss: 0.912906
2202	Train Epoch: 48	[5000/8000 (62%)]	Loss: 0.933778
2203	Train Epoch: 48	[6000/8000 (75%)]	Loss: 0.776553
2204	Train Epoch: 48	[7000/8000 (88%)]	Loss: 0.885195
2205			
2206	Test set:	Avg. loss: 0.5840, Accuracy: 1668/2000 (83.400%)	
2207			
2208	New best test_loss:	0.5840471386909485!	
2209	Train Epoch: 49	[0/8000 (0%)]	Loss: 0.833336
2210	Train Epoch: 49	[1000/8000 (12%)]	Loss: 0.890159
2211	Train Epoch: 49	[2000/8000 (25%)]	Loss: 0.812648
2212	Train Epoch: 49	[3000/8000 (38%)]	Loss: 0.840775
2213	Train Epoch: 49	[4000/8000 (50%)]	Loss: 0.960185
2214	Train Epoch: 49	[5000/8000 (62%)]	Loss: 0.910422
2215	Train Epoch: 49	[6000/8000 (75%)]	Loss: 0.965652
2216	Train Epoch: 49	[7000/8000 (88%)]	Loss: 0.840094
2217			
2218	Test set:	Avg. loss: 0.5570, Accuracy: 1667/2000 (83.350%)	
2219			
2220	New best test_loss:	0.55699622631073!	
2221	Train Epoch: 50	[0/8000 (0%)]	Loss: 0.900066
2222	Train Epoch: 50	[1000/8000 (12%)]	Loss: 0.881738
2223	Train Epoch: 50	[2000/8000 (25%)]	Loss: 0.782740
2224	Train Epoch: 50	[3000/8000 (38%)]	Loss: 0.860869

2225	Train Epoch: 50	[4000/8000 (50%)]	Loss: 0.683226
2226	Train Epoch: 50	[5000/8000 (62%)]	Loss: 0.903428
2227	Train Epoch: 50	[6000/8000 (75%)]	Loss: 0.990210
2228	Train Epoch: 50	[7000/8000 (88%)]	Loss: 0.816129
2229			
2230	Test set:	Avg. loss: 0.5852, Accuracy: 1670/2000 (83.500%)	
2231			
2232	Train Epoch: 51	[0/8000 (0%)]	Loss: 0.891390
2233	Train Epoch: 51	[1000/8000 (12%)]	Loss: 0.832428
2234	Train Epoch: 51	[2000/8000 (25%)]	Loss: 0.777952
2235	Train Epoch: 51	[3000/8000 (38%)]	Loss: 0.847895
2236	Train Epoch: 51	[4000/8000 (50%)]	Loss: 0.973738
2237	Train Epoch: 51	[5000/8000 (62%)]	Loss: 0.806783
2238	Train Epoch: 51	[6000/8000 (75%)]	Loss: 0.902603
2239	Train Epoch: 51	[7000/8000 (88%)]	Loss: 0.828107
2240			
2241	Test set:	Avg. loss: 0.5481, Accuracy: 1683/2000 (84.150%)	
2242			
2243	New best test_loss: 0.5480620265007019!		
2244	Train Epoch: 52	[0/8000 (0%)]	Loss: 0.748638
2245	Train Epoch: 52	[1000/8000 (12%)]	Loss: 0.749001
2246	Train Epoch: 52	[2000/8000 (25%)]	Loss: 0.743637
2247	Train Epoch: 52	[3000/8000 (38%)]	Loss: 0.900162
2248	Train Epoch: 52	[4000/8000 (50%)]	Loss: 0.745997
2249	Train Epoch: 52	[5000/8000 (62%)]	Loss: 0.948775
2250	Train Epoch: 52	[6000/8000 (75%)]	Loss: 0.913955
2251	Train Epoch: 52	[7000/8000 (88%)]	Loss: 0.783919
2252			
2253	Test set:	Avg. loss: 0.5599, Accuracy: 1661/2000 (83.050%)	
2254			
2255	Train Epoch: 53	[0/8000 (0%)]	Loss: 0.858667
2256	Train Epoch: 53	[1000/8000 (12%)]	Loss: 0.777783
2257	Train Epoch: 53	[2000/8000 (25%)]	Loss: 0.719387
2258	Train Epoch: 53	[3000/8000 (38%)]	Loss: 0.785760
2259	Train Epoch: 53	[4000/8000 (50%)]	Loss: 0.934978
2260	Train Epoch: 53	[5000/8000 (62%)]	Loss: 0.764464
2261	Train Epoch: 53	[6000/8000 (75%)]	Loss: 0.846569
2262	Train Epoch: 53	[7000/8000 (88%)]	Loss: 0.745944

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2263
2264 Test set: Avg. loss: 0.5548, Accuracy: 1660/2000 (83.000%)
2265
2266 Train Epoch: 54 [0/8000 (0%)] Loss: 0.754121
2267 Train Epoch: 54 [1000/8000 (12%)] Loss: 0.741444
2268 Train Epoch: 54 [2000/8000 (25%)] Loss: 0.744307
2269 Train Epoch: 54 [3000/8000 (38%)] Loss: 0.886003
2270 Train Epoch: 54 [4000/8000 (50%)] Loss: 0.902227
2271 Train Epoch: 54 [5000/8000 (62%)] Loss: 0.688352
2272 Train Epoch: 54 [6000/8000 (75%)] Loss: 0.790531
2273 Train Epoch: 54 [7000/8000 (88%)] Loss: 0.858477
2274
2275 Test set: Avg. loss: 0.5323, Accuracy: 1688/2000 (84.400%)
2276
2277 New best test_loss: 0.5322926640510559!
2278 Train Epoch: 55 [0/8000 (0%)] Loss: 0.805587
2279 Train Epoch: 55 [1000/8000 (12%)] Loss: 0.761209
2280 Train Epoch: 55 [2000/8000 (25%)] Loss: 0.613002
2281 Train Epoch: 55 [3000/8000 (38%)] Loss: 0.903644
2282 Train Epoch: 55 [4000/8000 (50%)] Loss: 0.892165
2283 Train Epoch: 55 [5000/8000 (62%)] Loss: 0.812147
2284 Train Epoch: 55 [6000/8000 (75%)] Loss: 0.888280
2285 Train Epoch: 55 [7000/8000 (88%)] Loss: 0.804447
2286
2287 Test set: Avg. loss: 0.5358, Accuracy: 1675/2000 (83.750%)
2288
2289 Train Epoch: 56 [0/8000 (0%)] Loss: 0.718608
2290 Train Epoch: 56 [1000/8000 (12%)] Loss: 0.669531
2291 Train Epoch: 56 [2000/8000 (25%)] Loss: 0.709581
2292 Train Epoch: 56 [3000/8000 (38%)] Loss: 0.774496
2293 Train Epoch: 56 [4000/8000 (50%)] Loss: 0.739086
2294 Train Epoch: 56 [5000/8000 (62%)] Loss: 0.925499
2295 Train Epoch: 56 [6000/8000 (75%)] Loss: 0.826050
2296 Train Epoch: 56 [7000/8000 (88%)] Loss: 0.761713
2297
2298 Test set: Avg. loss: 0.5035, Accuracy: 1702/2000 (85.100%)
2299
```

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2300 New best test_loss: 0.5035457611083984!
2301 Train Epoch: 57 [0/8000 (0%)] Loss: 0.775960
2302 Train Epoch: 57 [1000/8000 (12%)] Loss: 0.777453
2303 Train Epoch: 57 [2000/8000 (25%)] Loss: 0.731193
2304 Train Epoch: 57 [3000/8000 (38%)] Loss: 0.872247
2305 Train Epoch: 57 [4000/8000 (50%)] Loss: 0.692879
2306 Train Epoch: 57 [5000/8000 (62%)] Loss: 0.703822
2307 Train Epoch: 57 [6000/8000 (75%)] Loss: 0.787999
2308 Train Epoch: 57 [7000/8000 (88%)] Loss: 0.887842
2309
2310 Test set: Avg. loss: 0.5073, Accuracy: 1687/2000 (84.350%)
2311
2312 Train Epoch: 58 [0/8000 (0%)] Loss: 0.727476
2313 Train Epoch: 58 [1000/8000 (12%)] Loss: 0.762331
2314 Train Epoch: 58 [2000/8000 (25%)] Loss: 0.656744
2315 Train Epoch: 58 [3000/8000 (38%)] Loss: 0.783709
2316 Train Epoch: 58 [4000/8000 (50%)] Loss: 0.695580
2317 Train Epoch: 58 [5000/8000 (62%)] Loss: 0.871528
2318 Train Epoch: 58 [6000/8000 (75%)] Loss: 0.922082
2319 Train Epoch: 58 [7000/8000 (88%)] Loss: 0.629476
2320
2321 Test set: Avg. loss: 0.5041, Accuracy: 1695/2000 (84.750%)
2322
2323 Train Epoch: 59 [0/8000 (0%)] Loss: 0.669699
2324 Train Epoch: 59 [1000/8000 (12%)] Loss: 0.788981
2325 Train Epoch: 59 [2000/8000 (25%)] Loss: 0.700613
2326 Train Epoch: 59 [3000/8000 (38%)] Loss: 0.808962
2327 Train Epoch: 59 [4000/8000 (50%)] Loss: 0.894091
2328 Train Epoch: 59 [5000/8000 (62%)] Loss: 0.824751
2329 Train Epoch: 59 [6000/8000 (75%)] Loss: 0.792545
2330 Train Epoch: 59 [7000/8000 (88%)] Loss: 0.741044
2331
2332 Test set: Avg. loss: 0.5129, Accuracy: 1687/2000 (84.350%)
2333
2334 Train Epoch: 60 [0/8000 (0%)] Loss: 0.708012
2335 Train Epoch: 60 [1000/8000 (12%)] Loss: 0.783157
2336 Train Epoch: 60 [2000/8000 (25%)] Loss: 0.710881
2337 Train Epoch: 60 [3000/8000 (38%)] Loss: 0.679840
```

2338	Train Epoch: 60	[4000/8000 (50%)]	Loss: 0.801716
2339	Train Epoch: 60	[5000/8000 (62%)]	Loss: 0.786534
2340	Train Epoch: 60	[6000/8000 (75%)]	Loss: 0.799625
2341	Train Epoch: 60	[7000/8000 (88%)]	Loss: 0.721276
2342			
2343	Test set:	Avg. loss: 0.5071, Accuracy: 1708/2000 (85.400%)	
2344			
2345	Train Epoch: 61	[0/8000 (0%)]	Loss: 0.624451
2346	Train Epoch: 61	[1000/8000 (12%)]	Loss: 0.842765
2347	Train Epoch: 61	[2000/8000 (25%)]	Loss: 0.659610
2348	Train Epoch: 61	[3000/8000 (38%)]	Loss: 0.817294
2349	Train Epoch: 61	[4000/8000 (50%)]	Loss: 0.793527
2350	Train Epoch: 61	[5000/8000 (62%)]	Loss: 0.752905
2351	Train Epoch: 61	[6000/8000 (75%)]	Loss: 0.839166
2352	Train Epoch: 61	[7000/8000 (88%)]	Loss: 0.685006
2353			
2354	Test set:	Avg. loss: 0.4970, Accuracy: 1715/2000 (85.750%)	
2355			
2356	New best test_loss: 0.4969574809074402!		
2357	Train Epoch: 62	[0/8000 (0%)]	Loss: 0.738460
2358	Train Epoch: 62	[1000/8000 (12%)]	Loss: 0.685991
2359	Train Epoch: 62	[2000/8000 (25%)]	Loss: 0.695684
2360	Train Epoch: 62	[3000/8000 (38%)]	Loss: 0.733563
2361	Train Epoch: 62	[4000/8000 (50%)]	Loss: 0.755884
2362	Train Epoch: 62	[5000/8000 (62%)]	Loss: 0.796520
2363	Train Epoch: 62	[6000/8000 (75%)]	Loss: 0.830227
2364	Train Epoch: 62	[7000/8000 (88%)]	Loss: 0.723211
2365			
2366	Test set:	Avg. loss: 0.5150, Accuracy: 1682/2000 (84.100%)	
2367			
2368	Train Epoch: 63	[0/8000 (0%)]	Loss: 0.799832
2369	Train Epoch: 63	[1000/8000 (12%)]	Loss: 0.809437
2370	Train Epoch: 63	[2000/8000 (25%)]	Loss: 0.792813
2371	Train Epoch: 63	[3000/8000 (38%)]	Loss: 0.654715
2372	Train Epoch: 63	[4000/8000 (50%)]	Loss: 0.796834
2373	Train Epoch: 63	[5000/8000 (62%)]	Loss: 0.759261
2374	Train Epoch: 63	[6000/8000 (75%)]	Loss: 0.765986
2375	Train Epoch: 63	[7000/8000 (88%)]	Loss: 0.665323

```
2376
2377 Test set: Avg. loss: 0.4909, Accuracy: 1708/2000 (
    85.400%)
2378
2379 New best test_loss: 0.4908981919288635!
2380 Train Epoch: 64 [0/8000 (0%)] Loss: 0.768327
2381 Train Epoch: 64 [1000/8000 (12%)] Loss: 0.670227
2382 Train Epoch: 64 [2000/8000 (25%)] Loss: 0.802405
2383 Train Epoch: 64 [3000/8000 (38%)] Loss: 0.739308
2384 Train Epoch: 64 [4000/8000 (50%)] Loss: 0.695512
2385 Train Epoch: 64 [5000/8000 (62%)] Loss: 0.735153
2386 Train Epoch: 64 [6000/8000 (75%)] Loss: 0.763603
2387 Train Epoch: 64 [7000/8000 (88%)] Loss: 0.751552
2388
2389 Test set: Avg. loss: 0.4856, Accuracy: 1712/2000 (
    85.600%)
2390
2391 New best test_loss: 0.4856010377407074!
2392 Train Epoch: 65 [0/8000 (0%)] Loss: 0.730427
2393 Train Epoch: 65 [1000/8000 (12%)] Loss: 0.689277
2394 Train Epoch: 65 [2000/8000 (25%)] Loss: 0.746802
2395 Train Epoch: 65 [3000/8000 (38%)] Loss: 0.824864
2396 Train Epoch: 65 [4000/8000 (50%)] Loss: 0.953706
2397 Train Epoch: 65 [5000/8000 (62%)] Loss: 0.823866
2398 Train Epoch: 65 [6000/8000 (75%)] Loss: 0.903871
2399 Train Epoch: 65 [7000/8000 (88%)] Loss: 0.852808
2400
2401 Test set: Avg. loss: 0.4848, Accuracy: 1702/2000 (
    85.100%)
2402
2403 New best test_loss: 0.48477038741111755!
2404 Train Epoch: 66 [0/8000 (0%)] Loss: 0.796463
2405 Train Epoch: 66 [1000/8000 (12%)] Loss: 0.692223
2406 Train Epoch: 66 [2000/8000 (25%)] Loss: 0.692112
2407 Train Epoch: 66 [3000/8000 (38%)] Loss: 0.796984
2408 Train Epoch: 66 [4000/8000 (50%)] Loss: 0.760110
2409 Train Epoch: 66 [5000/8000 (62%)] Loss: 0.697545
2410 Train Epoch: 66 [6000/8000 (75%)] Loss: 0.732748
2411 Train Epoch: 66 [7000/8000 (88%)] Loss: 0.721904
2412
2413 Test set: Avg. loss: 0.4764, Accuracy: 1724/2000 (
```

```
2413 86.200%)  
2414  
2415 New best test_loss: 0.47637104988098145!  
2416 Train Epoch: 67 [0/8000 (0%)] Loss: 0.640129  
2417 Train Epoch: 67 [1000/8000 (12%)] Loss: 0.807796  
2418 Train Epoch: 67 [2000/8000 (25%)] Loss: 0.723662  
2419 Train Epoch: 67 [3000/8000 (38%)] Loss: 0.814921  
2420 Train Epoch: 67 [4000/8000 (50%)] Loss: 0.711908  
2421 Train Epoch: 67 [5000/8000 (62%)] Loss: 0.788500  
2422 Train Epoch: 67 [6000/8000 (75%)] Loss: 0.675885  
2423 Train Epoch: 67 [7000/8000 (88%)] Loss: 0.787147  
2424  
2425 Test set: Avg. loss: 0.4748, Accuracy: 1708/2000 (85.400%)  
2426  
2427 New best test_loss: 0.47478076815605164!  
2428 Train Epoch: 68 [0/8000 (0%)] Loss: 0.683192  
2429 Train Epoch: 68 [1000/8000 (12%)] Loss: 0.694756  
2430 Train Epoch: 68 [2000/8000 (25%)] Loss: 0.735435  
2431 Train Epoch: 68 [3000/8000 (38%)] Loss: 0.694459  
2432 Train Epoch: 68 [4000/8000 (50%)] Loss: 0.705951  
2433 Train Epoch: 68 [5000/8000 (62%)] Loss: 0.767826  
2434 Train Epoch: 68 [6000/8000 (75%)] Loss: 0.768089  
2435 Train Epoch: 68 [7000/8000 (88%)] Loss: 0.732832  
2436  
2437 Test set: Avg. loss: 0.4732, Accuracy: 1718/2000 (85.900%)  
2438  
2439 New best test_loss: 0.47317707538604736!  
2440 Train Epoch: 69 [0/8000 (0%)] Loss: 0.695798  
2441 Train Epoch: 69 [1000/8000 (12%)] Loss: 0.659066  
2442 Train Epoch: 69 [2000/8000 (25%)] Loss: 0.592710  
2443 Train Epoch: 69 [3000/8000 (38%)] Loss: 0.716966  
2444 Train Epoch: 69 [4000/8000 (50%)] Loss: 0.726827  
2445 Train Epoch: 69 [5000/8000 (62%)] Loss: 0.867169  
2446 Train Epoch: 69 [6000/8000 (75%)] Loss: 0.776125  
2447 Train Epoch: 69 [7000/8000 (88%)] Loss: 0.640280  
2448  
2449 Test set: Avg. loss: 0.4542, Accuracy: 1734/2000 (86.700%)  
2450
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2451 New best test_loss: 0.4541802704334259!
2452 Train Epoch: 70 [0/8000 (0%)] Loss: 0.686563
2453 Train Epoch: 70 [1000/8000 (12%)] Loss: 0.692789
2454 Train Epoch: 70 [2000/8000 (25%)] Loss: 0.682895
2455 Train Epoch: 70 [3000/8000 (38%)] Loss: 0.635193
2456 Train Epoch: 70 [4000/8000 (50%)] Loss: 0.710258
2457 Train Epoch: 70 [5000/8000 (62%)] Loss: 0.731399
2458 Train Epoch: 70 [6000/8000 (75%)] Loss: 0.743543
2459 Train Epoch: 70 [7000/8000 (88%)] Loss: 0.725757
2460
2461 Test set: Avg. loss: 0.4530, Accuracy: 1728/2000 (86.400%)
2462
2463 New best test_loss: 0.452951043844223!
2464 Train Epoch: 71 [0/8000 (0%)] Loss: 0.649543
2465 Train Epoch: 71 [1000/8000 (12%)] Loss: 0.542375
2466 Train Epoch: 71 [2000/8000 (25%)] Loss: 0.623815
2467 Train Epoch: 71 [3000/8000 (38%)] Loss: 0.641975
2468 Train Epoch: 71 [4000/8000 (50%)] Loss: 0.756176
2469 Train Epoch: 71 [5000/8000 (62%)] Loss: 0.727845
2470 Train Epoch: 71 [6000/8000 (75%)] Loss: 0.701962
2471 Train Epoch: 71 [7000/8000 (88%)] Loss: 0.841033
2472
2473 Test set: Avg. loss: 0.4604, Accuracy: 1733/2000 (86.650%)
2474
2475 Train Epoch: 72 [0/8000 (0%)] Loss: 0.711781
2476 Train Epoch: 72 [1000/8000 (12%)] Loss: 0.667835
2477 Train Epoch: 72 [2000/8000 (25%)] Loss: 0.595931
2478 Train Epoch: 72 [3000/8000 (38%)] Loss: 0.720134
2479 Train Epoch: 72 [4000/8000 (50%)] Loss: 0.778006
2480 Train Epoch: 72 [5000/8000 (62%)] Loss: 0.760106
2481 Train Epoch: 72 [6000/8000 (75%)] Loss: 0.709357
2482 Train Epoch: 72 [7000/8000 (88%)] Loss: 0.743986
2483
2484 Test set: Avg. loss: 0.4580, Accuracy: 1725/2000 (86.250%)
2485
2486 Train Epoch: 73 [0/8000 (0%)] Loss: 0.666531
2487 Train Epoch: 73 [1000/8000 (12%)] Loss: 0.656234
2488 Train Epoch: 73 [2000/8000 (25%)] Loss: 0.644765
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2489	Train Epoch: 73	[3000/8000 (38%)]	Loss: 0.685093
2490	Train Epoch: 73	[4000/8000 (50%)]	Loss: 0.793249
2491	Train Epoch: 73	[5000/8000 (62%)]	Loss: 0.734629
2492	Train Epoch: 73	[6000/8000 (75%)]	Loss: 0.664809
2493	Train Epoch: 73	[7000/8000 (88%)]	Loss: 0.630839
2494			
2495	Test set:	Avg. loss: 0.4467, Accuracy: 1732/2000 (86.600%)	
2496			
2497	New best test_loss:	0.44666627049446106!	
2498	Train Epoch: 74	[0/8000 (0%)]	Loss: 0.629825
2499	Train Epoch: 74	[1000/8000 (12%)]	Loss: 0.708762
2500	Train Epoch: 74	[2000/8000 (25%)]	Loss: 0.657391
2501	Train Epoch: 74	[3000/8000 (38%)]	Loss: 0.657525
2502	Train Epoch: 74	[4000/8000 (50%)]	Loss: 0.578684
2503	Train Epoch: 74	[5000/8000 (62%)]	Loss: 0.752547
2504	Train Epoch: 74	[6000/8000 (75%)]	Loss: 0.712522
2505	Train Epoch: 74	[7000/8000 (88%)]	Loss: 0.743496
2506			
2507	Test set:	Avg. loss: 0.4414, Accuracy: 1738/2000 (86.900%)	
2508			
2509	New best test_loss:	0.4413502514362335!	
2510	Train Epoch: 75	[0/8000 (0%)]	Loss: 0.612566
2511	Train Epoch: 75	[1000/8000 (12%)]	Loss: 0.669933
2512	Train Epoch: 75	[2000/8000 (25%)]	Loss: 0.634367
2513	Train Epoch: 75	[3000/8000 (38%)]	Loss: 0.751474
2514	Train Epoch: 75	[4000/8000 (50%)]	Loss: 0.787077
2515	Train Epoch: 75	[5000/8000 (62%)]	Loss: 0.617499
2516	Train Epoch: 75	[6000/8000 (75%)]	Loss: 0.818233
2517	Train Epoch: 75	[7000/8000 (88%)]	Loss: 0.703961
2518			
2519	Test set:	Avg. loss: 0.4416, Accuracy: 1735/2000 (86.750%)	
2520			
2521	Train Epoch: 76	[0/8000 (0%)]	Loss: 0.619660
2522	Train Epoch: 76	[1000/8000 (12%)]	Loss: 0.646635
2523	Train Epoch: 76	[2000/8000 (25%)]	Loss: 0.742365
2524	Train Epoch: 76	[3000/8000 (38%)]	Loss: 0.629773
2525	Train Epoch: 76	[4000/8000 (50%)]	Loss: 0.822637
2526	Train Epoch: 76	[5000/8000 (62%)]	Loss: 0.759407

2527	Train Epoch: 76 [6000/8000 (75%)]	Loss: 0.770338
2528	Train Epoch: 76 [7000/8000 (88%)]	Loss: 0.730073
2529		
2530	Test set: Avg. loss: 0.4363, Accuracy: 1750/2000 (87.500%)	
2531		
2532	New best test_loss: 0.43626049160957336!	
2533	Train Epoch: 77 [0/8000 (0%)]	Loss: 0.633101
2534	Train Epoch: 77 [1000/8000 (12%)]	Loss: 0.653614
2535	Train Epoch: 77 [2000/8000 (25%)]	Loss: 0.614824
2536	Train Epoch: 77 [3000/8000 (38%)]	Loss: 0.729103
2537	Train Epoch: 77 [4000/8000 (50%)]	Loss: 0.845513
2538	Train Epoch: 77 [5000/8000 (62%)]	Loss: 0.770686
2539	Train Epoch: 77 [6000/8000 (75%)]	Loss: 0.822864
2540	Train Epoch: 77 [7000/8000 (88%)]	Loss: 0.634095
2541		
2542	Test set: Avg. loss: 0.4339, Accuracy: 1755/2000 (87.750%)	
2543		
2544	New best test_loss: 0.4339289665222168!	
2545	Train Epoch: 78 [0/8000 (0%)]	Loss: 0.730390
2546	Train Epoch: 78 [1000/8000 (12%)]	Loss: 0.703236
2547	Train Epoch: 78 [2000/8000 (25%)]	Loss: 0.710020
2548	Train Epoch: 78 [3000/8000 (38%)]	Loss: 0.626222
2549	Train Epoch: 78 [4000/8000 (50%)]	Loss: 0.825938
2550	Train Epoch: 78 [5000/8000 (62%)]	Loss: 0.728921
2551	Train Epoch: 78 [6000/8000 (75%)]	Loss: 0.726070
2552	Train Epoch: 78 [7000/8000 (88%)]	Loss: 0.668048
2553		
2554	Test set: Avg. loss: 0.4411, Accuracy: 1755/2000 (87.750%)	
2555		
2556	Train Epoch: 79 [0/8000 (0%)]	Loss: 0.672687
2557	Train Epoch: 79 [1000/8000 (12%)]	Loss: 0.638426
2558	Train Epoch: 79 [2000/8000 (25%)]	Loss: 0.547629
2559	Train Epoch: 79 [3000/8000 (38%)]	Loss: 0.730871
2560	Train Epoch: 79 [4000/8000 (50%)]	Loss: 0.680937
2561	Train Epoch: 79 [5000/8000 (62%)]	Loss: 0.663076
2562	Train Epoch: 79 [6000/8000 (75%)]	Loss: 0.635418
2563	Train Epoch: 79 [7000/8000 (88%)]	Loss: 0.597857
2564		

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2565 Test set: Avg. loss: 0.4254, Accuracy: 1765/2000 (88.250%)
2566
2567 New best test_loss: 0.425394207239151!
2568 Train Epoch: 80 [0/8000 (0%)] Loss: 0.612526
2569 Train Epoch: 80 [1000/8000 (12%)] Loss: 0.700912
2570 Train Epoch: 80 [2000/8000 (25%)] Loss: 0.633997
2571 Train Epoch: 80 [3000/8000 (38%)] Loss: 0.653506
2572 Train Epoch: 80 [4000/8000 (50%)] Loss: 0.709911
2573 Train Epoch: 80 [5000/8000 (62%)] Loss: 0.702759
2574 Train Epoch: 80 [6000/8000 (75%)] Loss: 0.772060
2575 Train Epoch: 80 [7000/8000 (88%)] Loss: 0.708231
2576
2577 Test set: Avg. loss: 0.4271, Accuracy: 1752/2000 (87.600%)
2578
2579 Train Epoch: 81 [0/8000 (0%)] Loss: 0.732779
2580 Train Epoch: 81 [1000/8000 (12%)] Loss: 0.630860
2581 Train Epoch: 81 [2000/8000 (25%)] Loss: 0.700713
2582 Train Epoch: 81 [3000/8000 (38%)] Loss: 0.699635
2583 Train Epoch: 81 [4000/8000 (50%)] Loss: 0.653916
2584 Train Epoch: 81 [5000/8000 (62%)] Loss: 0.722949
2585 Train Epoch: 81 [6000/8000 (75%)] Loss: 0.670207
2586 Train Epoch: 81 [7000/8000 (88%)] Loss: 0.693782
2587
2588 Test set: Avg. loss: 0.4313, Accuracy: 1757/2000 (87.850%)
2589
2590 Train Epoch: 82 [0/8000 (0%)] Loss: 0.595554
2591 Train Epoch: 82 [1000/8000 (12%)] Loss: 0.695868
2592 Train Epoch: 82 [2000/8000 (25%)] Loss: 0.655250
2593 Train Epoch: 82 [3000/8000 (38%)] Loss: 0.626255
2594 Train Epoch: 82 [4000/8000 (50%)] Loss: 0.635947
2595 Train Epoch: 82 [5000/8000 (62%)] Loss: 0.697521
2596 Train Epoch: 82 [6000/8000 (75%)] Loss: 0.859284
2597 Train Epoch: 82 [7000/8000 (88%)] Loss: 0.817829
2598
2599 Test set: Avg. loss: 0.4321, Accuracy: 1742/2000 (87.100%)
2600
2601 Train Epoch: 83 [0/8000 (0%)] Loss: 0.633993
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2602	Train	Epoch: 83	[1000/8000 (12%)]	Loss: 0.621691
2603	Train	Epoch: 83	[2000/8000 (25%)]	Loss: 0.697812
2604	Train	Epoch: 83	[3000/8000 (38%)]	Loss: 0.599706
2605	Train	Epoch: 83	[4000/8000 (50%)]	Loss: 0.694208
2606	Train	Epoch: 83	[5000/8000 (62%)]	Loss: 0.856320
2607	Train	Epoch: 83	[6000/8000 (75%)]	Loss: 0.729029
2608	Train	Epoch: 83	[7000/8000 (88%)]	Loss: 0.724071
2609				
2610	Test set:	Avg. loss: 0.4204,	Accuracy: 1748/2000 (87.400%)	
2611				
2612	New best test_loss: 0.4203702509403229!			
2613	Train	Epoch: 84	[0/8000 (0%)]	Loss: 0.705296
2614	Train	Epoch: 84	[1000/8000 (12%)]	Loss: 0.600730
2615	Train	Epoch: 84	[2000/8000 (25%)]	Loss: 0.657562
2616	Train	Epoch: 84	[3000/8000 (38%)]	Loss: 0.665379
2617	Train	Epoch: 84	[4000/8000 (50%)]	Loss: 0.698530
2618	Train	Epoch: 84	[5000/8000 (62%)]	Loss: 0.746168
2619	Train	Epoch: 84	[6000/8000 (75%)]	Loss: 0.711379
2620	Train	Epoch: 84	[7000/8000 (88%)]	Loss: 0.610773
2621				
2622	Test set:	Avg. loss: 0.4063,	Accuracy: 1755/2000 (87.750%)	
2623				
2624	New best test_loss: 0.40627965331077576!			
2625	Train	Epoch: 85	[0/8000 (0%)]	Loss: 0.591495
2626	Train	Epoch: 85	[1000/8000 (12%)]	Loss: 0.581208
2627	Train	Epoch: 85	[2000/8000 (25%)]	Loss: 0.660446
2628	Train	Epoch: 85	[3000/8000 (38%)]	Loss: 0.687175
2629	Train	Epoch: 85	[4000/8000 (50%)]	Loss: 0.666189
2630	Train	Epoch: 85	[5000/8000 (62%)]	Loss: 0.714183
2631	Train	Epoch: 85	[6000/8000 (75%)]	Loss: 0.622093
2632	Train	Epoch: 85	[7000/8000 (88%)]	Loss: 0.772946
2633				
2634	Test set:	Avg. loss: 0.4129,	Accuracy: 1768/2000 (88.400%)	
2635				
2636	Train	Epoch: 86	[0/8000 (0%)]	Loss: 0.707919
2637	Train	Epoch: 86	[1000/8000 (12%)]	Loss: 0.536908
2638	Train	Epoch: 86	[2000/8000 (25%)]	Loss: 0.712706
2639	Train	Epoch: 86	[3000/8000 (38%)]	Loss: 0.631640

2640	Train Epoch: 86	[4000/8000 (50%)]	Loss: 0.602165
2641	Train Epoch: 86	[5000/8000 (62%)]	Loss: 0.721471
2642	Train Epoch: 86	[6000/8000 (75%)]	Loss: 0.680372
2643	Train Epoch: 86	[7000/8000 (88%)]	Loss: 0.620784
2644			
2645	Test set:	Avg. loss: 0.4127, Accuracy: 1760/2000 (88.000%)	
2646			
2647	Train Epoch: 87	[0/8000 (0%)]	Loss: 0.606425
2648	Train Epoch: 87	[1000/8000 (12%)]	Loss: 0.572830
2649	Train Epoch: 87	[2000/8000 (25%)]	Loss: 0.774003
2650	Train Epoch: 87	[3000/8000 (38%)]	Loss: 0.679595
2651	Train Epoch: 87	[4000/8000 (50%)]	Loss: 0.618683
2652	Train Epoch: 87	[5000/8000 (62%)]	Loss: 0.576912
2653	Train Epoch: 87	[6000/8000 (75%)]	Loss: 0.761046
2654	Train Epoch: 87	[7000/8000 (88%)]	Loss: 0.706906
2655			
2656	Test set:	Avg. loss: 0.3999, Accuracy: 1760/2000 (88.000%)	
2657			
2658	New best test_loss: 0.3998671770095825!		
2659	Train Epoch: 88	[0/8000 (0%)]	Loss: 0.674466
2660	Train Epoch: 88	[1000/8000 (12%)]	Loss: 0.713016
2661	Train Epoch: 88	[2000/8000 (25%)]	Loss: 0.522007
2662	Train Epoch: 88	[3000/8000 (38%)]	Loss: 0.566247
2663	Train Epoch: 88	[4000/8000 (50%)]	Loss: 0.638245
2664	Train Epoch: 88	[5000/8000 (62%)]	Loss: 0.760478
2665	Train Epoch: 88	[6000/8000 (75%)]	Loss: 0.713681
2666	Train Epoch: 88	[7000/8000 (88%)]	Loss: 0.751895
2667			
2668	Test set:	Avg. loss: 0.4059, Accuracy: 1766/2000 (88.300%)	
2669			
2670	Train Epoch: 89	[0/8000 (0%)]	Loss: 0.579420
2671	Train Epoch: 89	[1000/8000 (12%)]	Loss: 0.600105
2672	Train Epoch: 89	[2000/8000 (25%)]	Loss: 0.733941
2673	Train Epoch: 89	[3000/8000 (38%)]	Loss: 0.690931
2674	Train Epoch: 89	[4000/8000 (50%)]	Loss: 0.717473
2675	Train Epoch: 89	[5000/8000 (62%)]	Loss: 0.704757
2676	Train Epoch: 89	[6000/8000 (75%)]	Loss: 0.681210
2677	Train Epoch: 89	[7000/8000 (88%)]	Loss: 0.631694

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2678
2679 Test set: Avg. loss: 0.3978, Accuracy: 1770/2000 (
    88.500%)
2680
2681 New best test_loss: 0.3978460133075714!
2682 Train Epoch: 90 [0/8000 (0%)] Loss: 0.613516
2683 Train Epoch: 90 [1000/8000 (12%)] Loss: 0.620534
2684 Train Epoch: 90 [2000/8000 (25%)] Loss: 0.658785
2685 Train Epoch: 90 [3000/8000 (38%)] Loss: 0.606967
2686 Train Epoch: 90 [4000/8000 (50%)] Loss: 0.676042
2687 Train Epoch: 90 [5000/8000 (62%)] Loss: 0.606186
2688 Train Epoch: 90 [6000/8000 (75%)] Loss: 0.755837
2689 Train Epoch: 90 [7000/8000 (88%)] Loss: 0.651621
2690
2691 Test set: Avg. loss: 0.3941, Accuracy: 1763/2000 (
    88.150%)
2692
2693 New best test_loss: 0.3940868675708771!
2694 Train Epoch: 91 [0/8000 (0%)] Loss: 0.562301
2695 Train Epoch: 91 [1000/8000 (12%)] Loss: 0.656255
2696 Train Epoch: 91 [2000/8000 (25%)] Loss: 0.606317
2697 Train Epoch: 91 [3000/8000 (38%)] Loss: 0.720214
2698 Train Epoch: 91 [4000/8000 (50%)] Loss: 0.564350
2699 Train Epoch: 91 [5000/8000 (62%)] Loss: 0.984585
2700 Train Epoch: 91 [6000/8000 (75%)] Loss: 0.745326
2701 Train Epoch: 91 [7000/8000 (88%)] Loss: 0.776532
2702
2703 Test set: Avg. loss: 0.3907, Accuracy: 1768/2000 (
    88.400%)
2704
2705 New best test_loss: 0.3906605839729309!
2706 Train Epoch: 92 [0/8000 (0%)] Loss: 0.729318
2707 Train Epoch: 92 [1000/8000 (12%)] Loss: 0.550617
2708 Train Epoch: 92 [2000/8000 (25%)] Loss: 0.488448
2709 Train Epoch: 92 [3000/8000 (38%)] Loss: 0.610700
2710 Train Epoch: 92 [4000/8000 (50%)] Loss: 0.645769
2711 Train Epoch: 92 [5000/8000 (62%)] Loss: 0.662664
2712 Train Epoch: 92 [6000/8000 (75%)] Loss: 0.629899
2713 Train Epoch: 92 [7000/8000 (88%)] Loss: 0.593389
2714
2715 Test set: Avg. loss: 0.3862, Accuracy: 1778/2000 (
```

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2715 88.900%)  
2716  
2717 New best test_loss: 0.3862242102622986!  
2718 Train Epoch: 93 [0/8000 (0%)] Loss: 0.593215  
2719 Train Epoch: 93 [1000/8000 (12%)] Loss: 0.675203  
2720 Train Epoch: 93 [2000/8000 (25%)] Loss: 0.650811  
2721 Train Epoch: 93 [3000/8000 (38%)] Loss: 0.603888  
2722 Train Epoch: 93 [4000/8000 (50%)] Loss: 0.547747  
2723 Train Epoch: 93 [5000/8000 (62%)] Loss: 0.585841  
2724 Train Epoch: 93 [6000/8000 (75%)] Loss: 0.696137  
2725 Train Epoch: 93 [7000/8000 (88%)] Loss: 0.670658  
2726  
2727 Test set: Avg. loss: 0.4002, Accuracy: 1769/2000 (88.450%)  
2728  
2729 Train Epoch: 94 [0/8000 (0%)] Loss: 0.653594  
2730 Train Epoch: 94 [1000/8000 (12%)] Loss: 0.644253  
2731 Train Epoch: 94 [2000/8000 (25%)] Loss: 0.587055  
2732 Train Epoch: 94 [3000/8000 (38%)] Loss: 0.694884  
2733 Train Epoch: 94 [4000/8000 (50%)] Loss: 0.689135  
2734 Train Epoch: 94 [5000/8000 (62%)] Loss: 0.699302  
2735 Train Epoch: 94 [6000/8000 (75%)] Loss: 0.581426  
2736 Train Epoch: 94 [7000/8000 (88%)] Loss: 0.690982  
2737  
2738 Test set: Avg. loss: 0.3932, Accuracy: 1765/2000 (88.250%)  
2739  
2740 Train Epoch: 95 [0/8000 (0%)] Loss: 0.644129  
2741 Train Epoch: 95 [1000/8000 (12%)] Loss: 0.597297  
2742 Train Epoch: 95 [2000/8000 (25%)] Loss: 0.537391  
2743 Train Epoch: 95 [3000/8000 (38%)] Loss: 0.620006  
2744 Train Epoch: 95 [4000/8000 (50%)] Loss: 0.717118  
2745 Train Epoch: 95 [5000/8000 (62%)] Loss: 0.540537  
2746 Train Epoch: 95 [6000/8000 (75%)] Loss: 0.795695  
2747 Train Epoch: 95 [7000/8000 (88%)] Loss: 0.693556  
2748  
2749 Test set: Avg. loss: 0.3839, Accuracy: 1767/2000 (88.350%)  
2750  
2751 New best test_loss: 0.38389289379119873!  
2752 Train Epoch: 96 [0/8000 (0%)] Loss: 0.613388
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2753	Train Epoch: 96	[1000/8000 (12%)]	Loss: 0.662248
2754	Train Epoch: 96	[2000/8000 (25%)]	Loss: 0.643586
2755	Train Epoch: 96	[3000/8000 (38%)]	Loss: 0.543114
2756	Train Epoch: 96	[4000/8000 (50%)]	Loss: 0.608382
2757	Train Epoch: 96	[5000/8000 (62%)]	Loss: 0.691916
2758	Train Epoch: 96	[6000/8000 (75%)]	Loss: 0.780329
2759	Train Epoch: 96	[7000/8000 (88%)]	Loss: 0.695457
2760			
2761	Test set: Avg. loss: 0.3959, Accuracy: 1776/2000 (88.800%)		
2762			
2763	Train Epoch: 97	[0/8000 (0%)]	Loss: 0.604379
2764	Train Epoch: 97	[1000/8000 (12%)]	Loss: 0.580030
2765	Train Epoch: 97	[2000/8000 (25%)]	Loss: 0.641456
2766	Train Epoch: 97	[3000/8000 (38%)]	Loss: 0.712775
2767	Train Epoch: 97	[4000/8000 (50%)]	Loss: 0.707610
2768	Train Epoch: 97	[5000/8000 (62%)]	Loss: 0.734450
2769	Train Epoch: 97	[6000/8000 (75%)]	Loss: 0.625681
2770	Train Epoch: 97	[7000/8000 (88%)]	Loss: 0.669790
2771			
2772	Test set: Avg. loss: 0.3813, Accuracy: 1782/2000 (89.100%)		
2773			
2774	New best test_loss: 0.3813257217407226!		
2775	Train Epoch: 98	[0/8000 (0%)]	Loss: 0.624554
2776	Train Epoch: 98	[1000/8000 (12%)]	Loss: 0.569546
2777	Train Epoch: 98	[2000/8000 (25%)]	Loss: 0.514544
2778	Train Epoch: 98	[3000/8000 (38%)]	Loss: 0.694583
2779	Train Epoch: 98	[4000/8000 (50%)]	Loss: 0.603617
2780	Train Epoch: 98	[5000/8000 (62%)]	Loss: 0.634077
2781	Train Epoch: 98	[6000/8000 (75%)]	Loss: 0.702357
2782	Train Epoch: 98	[7000/8000 (88%)]	Loss: 0.604628
2783			
2784	Test set: Avg. loss: 0.3792, Accuracy: 1775/2000 (88.750%)		
2785			
2786	New best test_loss: 0.37923115491867065!		
2787	Train Epoch: 99	[0/8000 (0%)]	Loss: 0.558120
2788	Train Epoch: 99	[1000/8000 (12%)]	Loss: 0.546834
2789	Train Epoch: 99	[2000/8000 (25%)]	Loss: 0.714503
2790	Train Epoch: 99	[3000/8000 (38%)]	Loss: 0.529047

2791	Train Epoch: 99 [4000/8000 (50%)]	Loss: 0.605031
2792	Train Epoch: 99 [5000/8000 (62%)]	Loss: 0.751273
2793	Train Epoch: 99 [6000/8000 (75%)]	Loss: 0.584831
2794	Train Epoch: 99 [7000/8000 (88%)]	Loss: 0.652664
2795		
2796	Test set: Avg. loss: 0.3811, Accuracy: 1777/2000 (88.850%)	
2797		
2798	Train Epoch: 100 [0/8000 (0%)]	Loss: 0.525594
2799	Train Epoch: 100 [1000/8000 (12%)]	Loss: 0.580802
2800	Train Epoch: 100 [2000/8000 (25%)]	Loss: 0.614018
2801	Train Epoch: 100 [3000/8000 (38%)]	Loss: 0.535744
2802	Train Epoch: 100 [4000/8000 (50%)]	Loss: 0.565479
2803	Train Epoch: 100 [5000/8000 (62%)]	Loss: 0.762700
2804	Train Epoch: 100 [6000/8000 (75%)]	Loss: 0.711786
2805	Train Epoch: 100 [7000/8000 (88%)]	Loss: 0.655069
2806		
2807	Test set: Avg. loss: 0.3720, Accuracy: 1779/2000 (88.950%)	
2808		
2809	New best test_loss: 0.37200284004211426!	
2810	Train Epoch: 1 [0/8000 (0%)]	Loss: 2.328254
2811	Train Epoch: 1 [1000/8000 (12%)]	Loss: 2.296217
2812	Train Epoch: 1 [2000/8000 (25%)]	Loss: 2.315164
2813	Train Epoch: 1 [3000/8000 (38%)]	Loss: 2.295564
2814	Train Epoch: 1 [4000/8000 (50%)]	Loss: 2.284973
2815	Train Epoch: 1 [5000/8000 (62%)]	Loss: 2.300214
2816	Train Epoch: 1 [6000/8000 (75%)]	Loss: 2.309778
2817	Train Epoch: 1 [7000/8000 (88%)]	Loss: 2.299316
2818		
2819	Test set: Avg. loss: 2.2924, Accuracy: 204/2000 (10.200%)	
2820		
2821	New best test_loss: 2.292367458343506!	
2822	Train Epoch: 2 [0/8000 (0%)]	Loss: 2.285148
2823	Train Epoch: 2 [1000/8000 (12%)]	Loss: 2.280665
2824	Train Epoch: 2 [2000/8000 (25%)]	Loss: 2.291075
2825	Train Epoch: 2 [3000/8000 (38%)]	Loss: 2.292401
2826	Train Epoch: 2 [4000/8000 (50%)]	Loss: 2.278403
2827	Train Epoch: 2 [5000/8000 (62%)]	Loss: 2.283077
2828	Train Epoch: 2 [6000/8000 (75%)]	Loss: 2.295878

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2829 Train Epoch: 2 [7000/8000 (88%)] Loss: 2.284170
2830
2831 Test set: Avg. loss: 2.2705, Accuracy: 465/2000 (23
.250%)
2832
2833 New best test_loss: 2.270535469055176!
2834 Train Epoch: 3 [0/8000 (0%)] Loss: 2.269207
2835 Train Epoch: 3 [1000/8000 (12%)] Loss: 2.274001
2836 Train Epoch: 3 [2000/8000 (25%)] Loss: 2.271291
2837 Train Epoch: 3 [3000/8000 (38%)] Loss: 2.286403
2838 Train Epoch: 3 [4000/8000 (50%)] Loss: 2.242745
2839 Train Epoch: 3 [5000/8000 (62%)] Loss: 2.228648
2840 Train Epoch: 3 [6000/8000 (75%)] Loss: 2.231894
2841 Train Epoch: 3 [7000/8000 (88%)] Loss: 2.237246
2842
2843 Test set: Avg. loss: 2.1999, Accuracy: 744/2000 (37
.200%)
2844
2845 New best test_loss: 2.1999287605285645!
2846 Train Epoch: 4 [0/8000 (0%)] Loss: 2.234525
2847 Train Epoch: 4 [1000/8000 (12%)] Loss: 2.194320
2848 Train Epoch: 4 [2000/8000 (25%)] Loss: 2.202275
2849 Train Epoch: 4 [3000/8000 (38%)] Loss: 2.167152
2850 Train Epoch: 4 [4000/8000 (50%)] Loss: 2.151215
2851 Train Epoch: 4 [5000/8000 (62%)] Loss: 2.104597
2852 Train Epoch: 4 [6000/8000 (75%)] Loss: 2.077294
2853 Train Epoch: 4 [7000/8000 (88%)] Loss: 2.052813
2854
2855 Test set: Avg. loss: 1.8688, Accuracy: 1253/2000 (
62.650%)
2856
2857 New best test_loss: 1.868849515914917!
2858 Train Epoch: 5 [0/8000 (0%)] Loss: 1.950616
2859 Train Epoch: 5 [1000/8000 (12%)] Loss: 1.917238
2860 Train Epoch: 5 [2000/8000 (25%)] Loss: 1.814027
2861 Train Epoch: 5 [3000/8000 (38%)] Loss: 1.771918
2862 Train Epoch: 5 [4000/8000 (50%)] Loss: 1.629160
2863 Train Epoch: 5 [5000/8000 (62%)] Loss: 1.659152
2864 Train Epoch: 5 [6000/8000 (75%)] Loss: 1.552532
2865 Train Epoch: 5 [7000/8000 (88%)] Loss: 1.321230
2866
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2867 Test set: Avg. loss: 1.0703, Accuracy: 1542/2000 (77.100%)
2868
2869 New best test_loss: 1.070284843444824!
2870 Train Epoch: 6 [0/8000 (0%)] Loss: 1.394175
2871 Train Epoch: 6 [1000/8000 (12%)] Loss: 1.437016
2872 Train Epoch: 6 [2000/8000 (25%)] Loss: 1.071121
2873 Train Epoch: 6 [3000/8000 (38%)] Loss: 1.322091
2874 Train Epoch: 6 [4000/8000 (50%)] Loss: 1.204677
2875 Train Epoch: 6 [5000/8000 (62%)] Loss: 1.225519
2876 Train Epoch: 6 [6000/8000 (75%)] Loss: 1.127925
2877 Train Epoch: 6 [7000/8000 (88%)] Loss: 0.982529
2878
2879 Test set: Avg. loss: 0.6689, Accuracy: 1675/2000 (83.750%)
2880
2881 New best test_loss: 0.6688862442970276!
2882 Train Epoch: 7 [0/8000 (0%)] Loss: 1.057769
2883 Train Epoch: 7 [1000/8000 (12%)] Loss: 1.002737
2884 Train Epoch: 7 [2000/8000 (25%)] Loss: 1.041509
2885 Train Epoch: 7 [3000/8000 (38%)] Loss: 1.064412
2886 Train Epoch: 7 [4000/8000 (50%)] Loss: 0.935498
2887 Train Epoch: 7 [5000/8000 (62%)] Loss: 0.977875
2888 Train Epoch: 7 [6000/8000 (75%)] Loss: 0.991753
2889 Train Epoch: 7 [7000/8000 (88%)] Loss: 0.819036
2890
2891 Test set: Avg. loss: 0.5377, Accuracy: 1732/2000 (86.600%)
2892
2893 New best test_loss: 0.5377273559570312!
2894 Train Epoch: 8 [0/8000 (0%)] Loss: 0.775114
2895 Train Epoch: 8 [1000/8000 (12%)] Loss: 0.832699
2896 Train Epoch: 8 [2000/8000 (25%)] Loss: 0.745820
2897 Train Epoch: 8 [3000/8000 (38%)] Loss: 0.845365
2898 Train Epoch: 8 [4000/8000 (50%)] Loss: 0.811792
2899 Train Epoch: 8 [5000/8000 (62%)] Loss: 0.715512
2900 Train Epoch: 8 [6000/8000 (75%)] Loss: 0.925161
2901 Train Epoch: 8 [7000/8000 (88%)] Loss: 0.822960
2902
2903 Test set: Avg. loss: 0.4675, Accuracy: 1766/2000 (88.300%)
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2904
2905 New best test_loss: 0.4674724042415619!
2906 Train Epoch: 9 [0/8000 (0%)] Loss: 0.641834
2907 Train Epoch: 9 [1000/8000 (12%)] Loss: 0.669695
2908 Train Epoch: 9 [2000/8000 (25%)] Loss: 0.715382
2909 Train Epoch: 9 [3000/8000 (38%)] Loss: 0.703972
2910 Train Epoch: 9 [4000/8000 (50%)] Loss: 0.837747
2911 Train Epoch: 9 [5000/8000 (62%)] Loss: 0.726558
2912 Train Epoch: 9 [6000/8000 (75%)] Loss: 0.735164
2913 Train Epoch: 9 [7000/8000 (88%)] Loss: 0.733821
2914
2915 Test set: Avg. loss: 0.4202, Accuracy: 1782/2000 (89.100%)
2916
2917 New best test_loss: 0.42022979259490967!
2918 Train Epoch: 10 [0/8000 (0%)] Loss: 0.660581
2919 Train Epoch: 10 [1000/8000 (12%)] Loss: 0.597450
2920 Train Epoch: 10 [2000/8000 (25%)] Loss: 0.613663
2921 Train Epoch: 10 [3000/8000 (38%)] Loss: 0.816236
2922 Train Epoch: 10 [4000/8000 (50%)] Loss: 0.723255
2923 Train Epoch: 10 [5000/8000 (62%)] Loss: 0.626987
2924 Train Epoch: 10 [6000/8000 (75%)] Loss: 0.714233
2925 Train Epoch: 10 [7000/8000 (88%)] Loss: 0.685350
2926
2927 Test set: Avg. loss: 0.3779, Accuracy: 1805/2000 (90.250%)
2928
2929 New best test_loss: 0.37787941098213196!
2930 Train Epoch: 11 [0/8000 (0%)] Loss: 0.525745
2931 Train Epoch: 11 [1000/8000 (12%)] Loss: 0.680249
2932 Train Epoch: 11 [2000/8000 (25%)] Loss: 0.649276
2933 Train Epoch: 11 [3000/8000 (38%)] Loss: 0.640855
2934 Train Epoch: 11 [4000/8000 (50%)] Loss: 0.617841
2935 Train Epoch: 11 [5000/8000 (62%)] Loss: 0.677452
2936 Train Epoch: 11 [6000/8000 (75%)] Loss: 0.584246
2937 Train Epoch: 11 [7000/8000 (88%)] Loss: 0.563455
2938
2939 Test set: Avg. loss: 0.3573, Accuracy: 1814/2000 (90.700%)
2940
2941 New best test_loss: 0.35731762647628784!
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2942 Train Epoch: 12 [0/8000 (0%)] Loss: 0.477072
2943 Train Epoch: 12 [1000/8000 (12%)] Loss: 0.640453
2944 Train Epoch: 12 [2000/8000 (25%)] Loss: 0.631038
2945 Train Epoch: 12 [3000/8000 (38%)] Loss: 0.614934
2946 Train Epoch: 12 [4000/8000 (50%)] Loss: 0.733769
2947 Train Epoch: 12 [5000/8000 (62%)] Loss: 0.661009
2948 Train Epoch: 12 [6000/8000 (75%)] Loss: 0.635048
2949 Train Epoch: 12 [7000/8000 (88%)] Loss: 0.610242
2950
2951 Test set: Avg. loss: 0.3338, Accuracy: 1818/2000 (90.900%)
2952
2953 New best test_loss: 0.3338002264499664!
2954 Train Epoch: 13 [0/8000 (0%)] Loss: 0.534204
2955 Train Epoch: 13 [1000/8000 (12%)] Loss: 0.491197
2956 Train Epoch: 13 [2000/8000 (25%)] Loss: 0.519900
2957 Train Epoch: 13 [3000/8000 (38%)] Loss: 0.643093
2958 Train Epoch: 13 [4000/8000 (50%)] Loss: 0.524705
2959 Train Epoch: 13 [5000/8000 (62%)] Loss: 0.630657
2960 Train Epoch: 13 [6000/8000 (75%)] Loss: 0.486015
2961 Train Epoch: 13 [7000/8000 (88%)] Loss: 0.444650
2962
2963 Test set: Avg. loss: 0.3112, Accuracy: 1822/2000 (91.100%)
2964
2965 New best test_loss: 0.3111889362335205!
2966 Train Epoch: 14 [0/8000 (0%)] Loss: 0.489903
2967 Train Epoch: 14 [1000/8000 (12%)] Loss: 0.536508
2968 Train Epoch: 14 [2000/8000 (25%)] Loss: 0.568171
2969 Train Epoch: 14 [3000/8000 (38%)] Loss: 0.595776
2970 Train Epoch: 14 [4000/8000 (50%)] Loss: 0.581979
2971 Train Epoch: 14 [5000/8000 (62%)] Loss: 0.709344
2972 Train Epoch: 14 [6000/8000 (75%)] Loss: 0.609968
2973 Train Epoch: 14 [7000/8000 (88%)] Loss: 0.600836
2974
2975 Test set: Avg. loss: 0.3027, Accuracy: 1833/2000 (91.650%)
2976
2977 New best test_loss: 0.302731990814209!
2978 Train Epoch: 15 [0/8000 (0%)] Loss: 0.471119
2979 Train Epoch: 15 [1000/8000 (12%)] Loss: 0.447186
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2980	Train Epoch: 15	[2000/8000 (25%)]	Loss: 0.490704
2981	Train Epoch: 15	[3000/8000 (38%)]	Loss: 0.545412
2982	Train Epoch: 15	[4000/8000 (50%)]	Loss: 0.506475
2983	Train Epoch: 15	[5000/8000 (62%)]	Loss: 0.549289
2984	Train Epoch: 15	[6000/8000 (75%)]	Loss: 0.480228
2985	Train Epoch: 15	[7000/8000 (88%)]	Loss: 0.520886
2986			
2987	Test set:	Avg. loss: 0.2838, Accuracy: 1845/2000 (92.250%)	
2988			
2989	New best test_loss:	0.28378331661224365!	
2990	Train Epoch: 16	[0/8000 (0%)]	Loss: 0.478356
2991	Train Epoch: 16	[1000/8000 (12%)]	Loss: 0.468360
2992	Train Epoch: 16	[2000/8000 (25%)]	Loss: 0.497452
2993	Train Epoch: 16	[3000/8000 (38%)]	Loss: 0.545167
2994	Train Epoch: 16	[4000/8000 (50%)]	Loss: 0.679466
2995	Train Epoch: 16	[5000/8000 (62%)]	Loss: 0.577041
2996	Train Epoch: 16	[6000/8000 (75%)]	Loss: 0.532550
2997	Train Epoch: 16	[7000/8000 (88%)]	Loss: 0.504377
2998			
2999	Test set:	Avg. loss: 0.2745, Accuracy: 1845/2000 (92.250%)	
3000			
3001	New best test_loss:	0.2744602859020233!	
3002	Train Epoch: 17	[0/8000 (0%)]	Loss: 0.530063
3003	Train Epoch: 17	[1000/8000 (12%)]	Loss: 0.457665
3004	Train Epoch: 17	[2000/8000 (25%)]	Loss: 0.505995
3005	Train Epoch: 17	[3000/8000 (38%)]	Loss: 0.438735
3006	Train Epoch: 17	[4000/8000 (50%)]	Loss: 0.477235
3007	Train Epoch: 17	[5000/8000 (62%)]	Loss: 0.617473
3008	Train Epoch: 17	[6000/8000 (75%)]	Loss: 0.486839
3009	Train Epoch: 17	[7000/8000 (88%)]	Loss: 0.564499
3010			
3011	Test set:	Avg. loss: 0.2601, Accuracy: 1859/2000 (92.950%)	
3012			
3013	New best test_loss:	0.26008328795433044!	
3014	Train Epoch: 18	[0/8000 (0%)]	Loss: 0.414539
3015	Train Epoch: 18	[1000/8000 (12%)]	Loss: 0.456646
3016	Train Epoch: 18	[2000/8000 (25%)]	Loss: 0.546254
3017	Train Epoch: 18	[3000/8000 (38%)]	Loss: 0.503467

3018	Train Epoch: 18	[4000/8000 (50%)]	Loss: 0.462747
3019	Train Epoch: 18	[5000/8000 (62%)]	Loss: 0.464653
3020	Train Epoch: 18	[6000/8000 (75%)]	Loss: 0.444071
3021	Train Epoch: 18	[7000/8000 (88%)]	Loss: 0.449222
3022			
3023	Test set:	Avg. loss: 0.2453, Accuracy: 1869/2000 (93.450%)	
3024			
3025	New best test_loss:	0.2453128546476364!	
3026	Train Epoch: 19	[0/8000 (0%)]	Loss: 0.418264
3027	Train Epoch: 19	[1000/8000 (12%)]	Loss: 0.398329
3028	Train Epoch: 19	[2000/8000 (25%)]	Loss: 0.550550
3029	Train Epoch: 19	[3000/8000 (38%)]	Loss: 0.533959
3030	Train Epoch: 19	[4000/8000 (50%)]	Loss: 0.487677
3031	Train Epoch: 19	[5000/8000 (62%)]	Loss: 0.532297
3032	Train Epoch: 19	[6000/8000 (75%)]	Loss: 0.438280
3033	Train Epoch: 19	[7000/8000 (88%)]	Loss: 0.443757
3034			
3035	Test set:	Avg. loss: 0.2442, Accuracy: 1865/2000 (93.250%)	
3036			
3037	New best test_loss:	0.2441522181034088!	
3038	Train Epoch: 20	[0/8000 (0%)]	Loss: 0.344468
3039	Train Epoch: 20	[1000/8000 (12%)]	Loss: 0.550496
3040	Train Epoch: 20	[2000/8000 (25%)]	Loss: 0.533498
3041	Train Epoch: 20	[3000/8000 (38%)]	Loss: 0.519949
3042	Train Epoch: 20	[4000/8000 (50%)]	Loss: 0.553397
3043	Train Epoch: 20	[5000/8000 (62%)]	Loss: 0.491144
3044	Train Epoch: 20	[6000/8000 (75%)]	Loss: 0.605691
3045	Train Epoch: 20	[7000/8000 (88%)]	Loss: 0.355780
3046			
3047	Test set:	Avg. loss: 0.2358, Accuracy: 1866/2000 (93.300%)	
3048			
3049	New best test_loss:	0.23580704629421234!	
3050	Train Epoch: 21	[0/8000 (0%)]	Loss: 0.385723
3051	Train Epoch: 21	[1000/8000 (12%)]	Loss: 0.418088
3052	Train Epoch: 21	[2000/8000 (25%)]	Loss: 0.368256
3053	Train Epoch: 21	[3000/8000 (38%)]	Loss: 0.509711
3054	Train Epoch: 21	[4000/8000 (50%)]	Loss: 0.591906
3055	Train Epoch: 21	[5000/8000 (62%)]	Loss: 0.460541

3056	Train Epoch: 21 [6000/8000 (75%)]	Loss: 0.342151
3057	Train Epoch: 21 [7000/8000 (88%)]	Loss: 0.427894
3058		
3059	Test set: Avg. loss: 0.2212, Accuracy: 1875/2000 (93.750%)	
3060		
3061	New best test_loss: 0.22122949361801147!	
3062	Train Epoch: 22 [0/8000 (0%)]	Loss: 0.371348
3063	Train Epoch: 22 [1000/8000 (12%)]	Loss: 0.395811
3064	Train Epoch: 22 [2000/8000 (25%)]	Loss: 0.439249
3065	Train Epoch: 22 [3000/8000 (38%)]	Loss: 0.471942
3066	Train Epoch: 22 [4000/8000 (50%)]	Loss: 0.436646
3067	Train Epoch: 22 [5000/8000 (62%)]	Loss: 0.589501
3068	Train Epoch: 22 [6000/8000 (75%)]	Loss: 0.367236
3069	Train Epoch: 22 [7000/8000 (88%)]	Loss: 0.458859
3070		
3071	Test set: Avg. loss: 0.2181, Accuracy: 1880/2000 (94.000%)	
3072		
3073	New best test_loss: 0.21808551251888275!	
3074	Train Epoch: 23 [0/8000 (0%)]	Loss: 0.308824
3075	Train Epoch: 23 [1000/8000 (12%)]	Loss: 0.336411
3076	Train Epoch: 23 [2000/8000 (25%)]	Loss: 0.461527
3077	Train Epoch: 23 [3000/8000 (38%)]	Loss: 0.477957
3078	Train Epoch: 23 [4000/8000 (50%)]	Loss: 0.334667
3079	Train Epoch: 23 [5000/8000 (62%)]	Loss: 0.441918
3080	Train Epoch: 23 [6000/8000 (75%)]	Loss: 0.360725
3081	Train Epoch: 23 [7000/8000 (88%)]	Loss: 0.375222
3082		
3083	Test set: Avg. loss: 0.2122, Accuracy: 1882/2000 (94.100%)	
3084		
3085	New best test_loss: 0.2122291922569275!	
3086	Train Epoch: 24 [0/8000 (0%)]	Loss: 0.317021
3087	Train Epoch: 24 [1000/8000 (12%)]	Loss: 0.426405
3088	Train Epoch: 24 [2000/8000 (25%)]	Loss: 0.431087
3089	Train Epoch: 24 [3000/8000 (38%)]	Loss: 0.467361
3090	Train Epoch: 24 [4000/8000 (50%)]	Loss: 0.360827
3091	Train Epoch: 24 [5000/8000 (62%)]	Loss: 0.526358
3092	Train Epoch: 24 [6000/8000 (75%)]	Loss: 0.340886
3093	Train Epoch: 24 [7000/8000 (88%)]	Loss: 0.494602

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3094
3095 Test set: Avg. loss: 0.2081, Accuracy: 1883/2000 (
    94.150%)
3096
3097 New best test_loss: 0.20808127522468567!
3098 Train Epoch: 25 [0/8000 (0%)] Loss: 0.349914
3099 Train Epoch: 25 [1000/8000 (12%)] Loss: 0.330029
3100 Train Epoch: 25 [2000/8000 (25%)] Loss: 0.467589
3101 Train Epoch: 25 [3000/8000 (38%)] Loss: 0.471874
3102 Train Epoch: 25 [4000/8000 (50%)] Loss: 0.556771
3103 Train Epoch: 25 [5000/8000 (62%)] Loss: 0.485363
3104 Train Epoch: 25 [6000/8000 (75%)] Loss: 0.431232
3105 Train Epoch: 25 [7000/8000 (88%)] Loss: 0.429669
3106
3107 Test set: Avg. loss: 0.2011, Accuracy: 1890/2000 (
    94.500%)
3108
3109 New best test_loss: 0.20113663375377655!
3110 Train Epoch: 26 [0/8000 (0%)] Loss: 0.339831
3111 Train Epoch: 26 [1000/8000 (12%)] Loss: 0.369954
3112 Train Epoch: 26 [2000/8000 (25%)] Loss: 0.399745
3113 Train Epoch: 26 [3000/8000 (38%)] Loss: 0.307150
3114 Train Epoch: 26 [4000/8000 (50%)] Loss: 0.289557
3115 Train Epoch: 26 [5000/8000 (62%)] Loss: 0.402051
3116 Train Epoch: 26 [6000/8000 (75%)] Loss: 0.466290
3117 Train Epoch: 26 [7000/8000 (88%)] Loss: 0.430144
3118
3119 Test set: Avg. loss: 0.1961, Accuracy: 1898/2000 (
    94.900%)
3120
3121 New best test_loss: 0.1961365044116974!
3122 Train Epoch: 27 [0/8000 (0%)] Loss: 0.316812
3123 Train Epoch: 27 [1000/8000 (12%)] Loss: 0.388330
3124 Train Epoch: 27 [2000/8000 (25%)] Loss: 0.400503
3125 Train Epoch: 27 [3000/8000 (38%)] Loss: 0.409110
3126 Train Epoch: 27 [4000/8000 (50%)] Loss: 0.463028
3127 Train Epoch: 27 [5000/8000 (62%)] Loss: 0.391726
3128 Train Epoch: 27 [6000/8000 (75%)] Loss: 0.441841
3129 Train Epoch: 27 [7000/8000 (88%)] Loss: 0.409031
3130
3131 Test set: Avg. loss: 0.1906, Accuracy: 1898/2000 (
```

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3131 94.900%)  
3132  
3133 New best test_loss: 0.19060398638248444!  
3134 Train Epoch: 28 [0/8000 (0%)] Loss: 0.310373  
3135 Train Epoch: 28 [1000/8000 (12%)] Loss: 0.393738  
3136 Train Epoch: 28 [2000/8000 (25%)] Loss: 0.458718  
3137 Train Epoch: 28 [3000/8000 (38%)] Loss: 0.409195  
3138 Train Epoch: 28 [4000/8000 (50%)] Loss: 0.501913  
3139 Train Epoch: 28 [5000/8000 (62%)] Loss: 0.410979  
3140 Train Epoch: 28 [6000/8000 (75%)] Loss: 0.395187  
3141 Train Epoch: 28 [7000/8000 (88%)] Loss: 0.399841  
3142  
3143 Test set: Avg. loss: 0.1891, Accuracy: 1895/2000 (94.750%)  
3144  
3145 New best test_loss: 0.18912433087825775!  
3146 Train Epoch: 29 [0/8000 (0%)] Loss: 0.379008  
3147 Train Epoch: 29 [1000/8000 (12%)] Loss: 0.311324  
3148 Train Epoch: 29 [2000/8000 (25%)] Loss: 0.396687  
3149 Train Epoch: 29 [3000/8000 (38%)] Loss: 0.467601  
3150 Train Epoch: 29 [4000/8000 (50%)] Loss: 0.363179  
3151 Train Epoch: 29 [5000/8000 (62%)] Loss: 0.501686  
3152 Train Epoch: 29 [6000/8000 (75%)] Loss: 0.369369  
3153 Train Epoch: 29 [7000/8000 (88%)] Loss: 0.450502  
3154  
3155 Test set: Avg. loss: 0.1845, Accuracy: 1898/2000 (94.900%)  
3156  
3157 New best test_loss: 0.18453873693943024!  
3158 Train Epoch: 30 [0/8000 (0%)] Loss: 0.265564  
3159 Train Epoch: 30 [1000/8000 (12%)] Loss: 0.300290  
3160 Train Epoch: 30 [2000/8000 (25%)] Loss: 0.387140  
3161 Train Epoch: 30 [3000/8000 (38%)] Loss: 0.276034  
3162 Train Epoch: 30 [4000/8000 (50%)] Loss: 0.471435  
3163 Train Epoch: 30 [5000/8000 (62%)] Loss: 0.412541  
3164 Train Epoch: 30 [6000/8000 (75%)] Loss: 0.342472  
3165 Train Epoch: 30 [7000/8000 (88%)] Loss: 0.407487  
3166  
3167 Test set: Avg. loss: 0.1766, Accuracy: 1904/2000 (95.200%)  
3168
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3169 New best test_loss: 0.17660941183567047!
3170 Train Epoch: 31 [0/8000 (0%)] Loss: 0.281035
3171 Train Epoch: 31 [1000/8000 (12%)] Loss: 0.283960
3172 Train Epoch: 31 [2000/8000 (25%)] Loss: 0.332520
3173 Train Epoch: 31 [3000/8000 (38%)] Loss: 0.438306
3174 Train Epoch: 31 [4000/8000 (50%)] Loss: 0.353180
3175 Train Epoch: 31 [5000/8000 (62%)] Loss: 0.289926
3176 Train Epoch: 31 [6000/8000 (75%)] Loss: 0.302316
3177 Train Epoch: 31 [7000/8000 (88%)] Loss: 0.372891
3178
3179 Test set: Avg. loss: 0.1763, Accuracy: 1903/2000 (95.150%)
3180
3181 New best test_loss: 0.17628173530101776!
3182 Train Epoch: 32 [0/8000 (0%)] Loss: 0.329019
3183 Train Epoch: 32 [1000/8000 (12%)] Loss: 0.324730
3184 Train Epoch: 32 [2000/8000 (25%)] Loss: 0.398832
3185 Train Epoch: 32 [3000/8000 (38%)] Loss: 0.385404
3186 Train Epoch: 32 [4000/8000 (50%)] Loss: 0.481071
3187 Train Epoch: 32 [5000/8000 (62%)] Loss: 0.423313
3188 Train Epoch: 32 [6000/8000 (75%)] Loss: 0.279314
3189 Train Epoch: 32 [7000/8000 (88%)] Loss: 0.480719
3190
3191 Test set: Avg. loss: 0.1710, Accuracy: 1903/2000 (95.150%)
3192
3193 New best test_loss: 0.1709757000207901!
3194 Train Epoch: 33 [0/8000 (0%)] Loss: 0.338858
3195 Train Epoch: 33 [1000/8000 (12%)] Loss: 0.289798
3196 Train Epoch: 33 [2000/8000 (25%)] Loss: 0.317256
3197 Train Epoch: 33 [3000/8000 (38%)] Loss: 0.357062
3198 Train Epoch: 33 [4000/8000 (50%)] Loss: 0.425598
3199 Train Epoch: 33 [5000/8000 (62%)] Loss: 0.410819
3200 Train Epoch: 33 [6000/8000 (75%)] Loss: 0.403315
3201 Train Epoch: 33 [7000/8000 (88%)] Loss: 0.311246
3202
3203 Test set: Avg. loss: 0.1675, Accuracy: 1905/2000 (95.250%)
3204
3205 New best test_loss: 0.16745097935199738!
3206 Train Epoch: 34 [0/8000 (0%)] Loss: 0.277927
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3207	Train Epoch: 34	[1000/8000 (12%)]	Loss: 0.414359
3208	Train Epoch: 34	[2000/8000 (25%)]	Loss: 0.305005
3209	Train Epoch: 34	[3000/8000 (38%)]	Loss: 0.398739
3210	Train Epoch: 34	[4000/8000 (50%)]	Loss: 0.325818
3211	Train Epoch: 34	[5000/8000 (62%)]	Loss: 0.290287
3212	Train Epoch: 34	[6000/8000 (75%)]	Loss: 0.323074
3213	Train Epoch: 34	[7000/8000 (88%)]	Loss: 0.332848
3214			
3215	Test set:	Avg. loss: 0.1656, Accuracy: 1905/2000 (95.250%)	
3216			
3217	New best test_loss: 0.1656249761581421!		
3218	Train Epoch: 35	[0/8000 (0%)]	Loss: 0.347016
3219	Train Epoch: 35	[1000/8000 (12%)]	Loss: 0.260774
3220	Train Epoch: 35	[2000/8000 (25%)]	Loss: 0.392073
3221	Train Epoch: 35	[3000/8000 (38%)]	Loss: 0.264979
3222	Train Epoch: 35	[4000/8000 (50%)]	Loss: 0.411382
3223	Train Epoch: 35	[5000/8000 (62%)]	Loss: 0.400066
3224	Train Epoch: 35	[6000/8000 (75%)]	Loss: 0.230097
3225	Train Epoch: 35	[7000/8000 (88%)]	Loss: 0.379376
3226			
3227	Test set:	Avg. loss: 0.1604, Accuracy: 1912/2000 (95.600%)	
3228			
3229	New best test_loss: 0.16043081879615784!		
3230	Train Epoch: 36	[0/8000 (0%)]	Loss: 0.287878
3231	Train Epoch: 36	[1000/8000 (12%)]	Loss: 0.340444
3232	Train Epoch: 36	[2000/8000 (25%)]	Loss: 0.331627
3233	Train Epoch: 36	[3000/8000 (38%)]	Loss: 0.274206
3234	Train Epoch: 36	[4000/8000 (50%)]	Loss: 0.363694
3235	Train Epoch: 36	[5000/8000 (62%)]	Loss: 0.447256
3236	Train Epoch: 36	[6000/8000 (75%)]	Loss: 0.343815
3237	Train Epoch: 36	[7000/8000 (88%)]	Loss: 0.492579
3238			
3239	Test set:	Avg. loss: 0.1636, Accuracy: 1910/2000 (95.500%)	
3240			
3241	Train Epoch: 37	[0/8000 (0%)]	Loss: 0.312731
3242	Train Epoch: 37	[1000/8000 (12%)]	Loss: 0.303916
3243	Train Epoch: 37	[2000/8000 (25%)]	Loss: 0.269996
3244	Train Epoch: 37	[3000/8000 (38%)]	Loss: 0.243920

3245	Train Epoch: 37	[4000/8000 (50%)]	Loss: 0.400542
3246	Train Epoch: 37	[5000/8000 (62%)]	Loss: 0.380774
3247	Train Epoch: 37	[6000/8000 (75%)]	Loss: 0.355550
3248	Train Epoch: 37	[7000/8000 (88%)]	Loss: 0.363782
3249			
3250	Test set:	Avg. loss: 0.1582, Accuracy: 1911/2000 (95.550%)	
3251			
3252	New best test_loss:	0.15821325778961182!	
3253	Train Epoch: 38	[0/8000 (0%)]	Loss: 0.364995
3254	Train Epoch: 38	[1000/8000 (12%)]	Loss: 0.225892
3255	Train Epoch: 38	[2000/8000 (25%)]	Loss: 0.362306
3256	Train Epoch: 38	[3000/8000 (38%)]	Loss: 0.329401
3257	Train Epoch: 38	[4000/8000 (50%)]	Loss: 0.335986
3258	Train Epoch: 38	[5000/8000 (62%)]	Loss: 0.415127
3259	Train Epoch: 38	[6000/8000 (75%)]	Loss: 0.260465
3260	Train Epoch: 38	[7000/8000 (88%)]	Loss: 0.250193
3261			
3262	Test set:	Avg. loss: 0.1503, Accuracy: 1915/2000 (95.750%)	
3263			
3264	New best test_loss:	0.15031054615974426!	
3265	Train Epoch: 39	[0/8000 (0%)]	Loss: 0.167865
3266	Train Epoch: 39	[1000/8000 (12%)]	Loss: 0.298101
3267	Train Epoch: 39	[2000/8000 (25%)]	Loss: 0.276760
3268	Train Epoch: 39	[3000/8000 (38%)]	Loss: 0.274059
3269	Train Epoch: 39	[4000/8000 (50%)]	Loss: 0.386089
3270	Train Epoch: 39	[5000/8000 (62%)]	Loss: 0.307782
3271	Train Epoch: 39	[6000/8000 (75%)]	Loss: 0.261582
3272	Train Epoch: 39	[7000/8000 (88%)]	Loss: 0.344082
3273			
3274	Test set:	Avg. loss: 0.1526, Accuracy: 1917/2000 (95.850%)	
3275			
3276	Train Epoch: 40	[0/8000 (0%)]	Loss: 0.304749
3277	Train Epoch: 40	[1000/8000 (12%)]	Loss: 0.255164
3278	Train Epoch: 40	[2000/8000 (25%)]	Loss: 0.406912
3279	Train Epoch: 40	[3000/8000 (38%)]	Loss: 0.268540
3280	Train Epoch: 40	[4000/8000 (50%)]	Loss: 0.331938
3281	Train Epoch: 40	[5000/8000 (62%)]	Loss: 0.389962
3282	Train Epoch: 40	[6000/8000 (75%)]	Loss: 0.234978

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3283 Train Epoch: 40 [7000/8000 (88%)] Loss: 0.385496
3284
3285 Test set: Avg. loss: 0.1519, Accuracy: 1917/2000 (95.850%)
3286
3287 Train Epoch: 41 [0/8000 (0%)] Loss: 0.268090
3288 Train Epoch: 41 [1000/8000 (12%)] Loss: 0.489655
3289 Train Epoch: 41 [2000/8000 (25%)] Loss: 0.298215
3290 Train Epoch: 41 [3000/8000 (38%)] Loss: 0.267059
3291 Train Epoch: 41 [4000/8000 (50%)] Loss: 0.271564
3292 Train Epoch: 41 [5000/8000 (62%)] Loss: 0.386092
3293 Train Epoch: 41 [6000/8000 (75%)] Loss: 0.299144
3294 Train Epoch: 41 [7000/8000 (88%)] Loss: 0.303225
3295
3296 Test set: Avg. loss: 0.1519, Accuracy: 1923/2000 (96.150%)
3297
3298 Train Epoch: 42 [0/8000 (0%)] Loss: 0.170502
3299 Train Epoch: 42 [1000/8000 (12%)] Loss: 0.313041
3300 Train Epoch: 42 [2000/8000 (25%)] Loss: 0.201650
3301 Train Epoch: 42 [3000/8000 (38%)] Loss: 0.253223
3302 Train Epoch: 42 [4000/8000 (50%)] Loss: 0.316696
3303 Train Epoch: 42 [5000/8000 (62%)] Loss: 0.504702
3304 Train Epoch: 42 [6000/8000 (75%)] Loss: 0.349097
3305 Train Epoch: 42 [7000/8000 (88%)] Loss: 0.381311
3306
3307 Test set: Avg. loss: 0.1461, Accuracy: 1924/2000 (96.200%)
3308
3309 New best test_loss: 0.14611566066741943!
3310 Train Epoch: 43 [0/8000 (0%)] Loss: 0.211083
3311 Train Epoch: 43 [1000/8000 (12%)] Loss: 0.226213
3312 Train Epoch: 43 [2000/8000 (25%)] Loss: 0.223763
3313 Train Epoch: 43 [3000/8000 (38%)] Loss: 0.378541
3314 Train Epoch: 43 [4000/8000 (50%)] Loss: 0.281619
3315 Train Epoch: 43 [5000/8000 (62%)] Loss: 0.345191
3316 Train Epoch: 43 [6000/8000 (75%)] Loss: 0.305961
3317 Train Epoch: 43 [7000/8000 (88%)] Loss: 0.427550
3318
3319 Test set: Avg. loss: 0.1429, Accuracy: 1929/2000 (96.450%)
```

3320
3321 New best test_loss: 0.14291565120220184!
3322 Train Epoch: 44 [0/8000 (0%)] Loss: 0.177549
3323 Train Epoch: 44 [1000/8000 (12%)] Loss: 0.293879
3324 Train Epoch: 44 [2000/8000 (25%)] Loss: 0.263860
3325 Train Epoch: 44 [3000/8000 (38%)] Loss: 0.332460
3326 Train Epoch: 44 [4000/8000 (50%)] Loss: 0.309175
3327 Train Epoch: 44 [5000/8000 (62%)] Loss: 0.292522
3328 Train Epoch: 44 [6000/8000 (75%)] Loss: 0.250712
3329 Train Epoch: 44 [7000/8000 (88%)] Loss: 0.430068
3330
3331 Test set: Avg. loss: 0.1439, Accuracy: 1922/2000 (96.100%)
3332
3333 Train Epoch: 45 [0/8000 (0%)] Loss: 0.221258
3334 Train Epoch: 45 [1000/8000 (12%)] Loss: 0.290412
3335 Train Epoch: 45 [2000/8000 (25%)] Loss: 0.301869
3336 Train Epoch: 45 [3000/8000 (38%)] Loss: 0.328139
3337 Train Epoch: 45 [4000/8000 (50%)] Loss: 0.350285
3338 Train Epoch: 45 [5000/8000 (62%)] Loss: 0.426732
3339 Train Epoch: 45 [6000/8000 (75%)] Loss: 0.273864
3340 Train Epoch: 45 [7000/8000 (88%)] Loss: 0.482870
3341
3342 Test set: Avg. loss: 0.1441, Accuracy: 1921/2000 (96.050%)
3343
3344 Train Epoch: 46 [0/8000 (0%)] Loss: 0.257209
3345 Train Epoch: 46 [1000/8000 (12%)] Loss: 0.233548
3346 Train Epoch: 46 [2000/8000 (25%)] Loss: 0.353193
3347 Train Epoch: 46 [3000/8000 (38%)] Loss: 0.197730
3348 Train Epoch: 46 [4000/8000 (50%)] Loss: 0.289509
3349 Train Epoch: 46 [5000/8000 (62%)] Loss: 0.440468
3350 Train Epoch: 46 [6000/8000 (75%)] Loss: 0.285570
3351 Train Epoch: 46 [7000/8000 (88%)] Loss: 0.400128
3352
3353 Test set: Avg. loss: 0.1451, Accuracy: 1920/2000 (96.000%)
3354
3355 Train Epoch: 47 [0/8000 (0%)] Loss: 0.233536
3356 Train Epoch: 47 [1000/8000 (12%)] Loss: 0.237363
3357 Train Epoch: 47 [2000/8000 (25%)] Loss: 0.320824

3358	Train Epoch: 47	[3000/8000 (38%)]	Loss: 0.222083
3359	Train Epoch: 47	[4000/8000 (50%)]	Loss: 0.371945
3360	Train Epoch: 47	[5000/8000 (62%)]	Loss: 0.393985
3361	Train Epoch: 47	[6000/8000 (75%)]	Loss: 0.321998
3362	Train Epoch: 47	[7000/8000 (88%)]	Loss: 0.246269
3363			
3364	Test set:	Avg. loss: 0.1409, Accuracy: 1926/2000 (96.300%)	
3365			
3366	New best test_loss:	0.14087404310703278!	
3367	Train Epoch: 48	[0/8000 (0%)]	Loss: 0.156496
3368	Train Epoch: 48	[1000/8000 (12%)]	Loss: 0.304638
3369	Train Epoch: 48	[2000/8000 (25%)]	Loss: 0.375066
3370	Train Epoch: 48	[3000/8000 (38%)]	Loss: 0.291249
3371	Train Epoch: 48	[4000/8000 (50%)]	Loss: 0.351599
3372	Train Epoch: 48	[5000/8000 (62%)]	Loss: 0.366452
3373	Train Epoch: 48	[6000/8000 (75%)]	Loss: 0.264256
3374	Train Epoch: 48	[7000/8000 (88%)]	Loss: 0.417404
3375			
3376	Test set:	Avg. loss: 0.1384, Accuracy: 1920/2000 (96.000%)	
3377			
3378	New best test_loss:	0.13841989636421204!	
3379	Train Epoch: 49	[0/8000 (0%)]	Loss: 0.301238
3380	Train Epoch: 49	[1000/8000 (12%)]	Loss: 0.282952
3381	Train Epoch: 49	[2000/8000 (25%)]	Loss: 0.281605
3382	Train Epoch: 49	[3000/8000 (38%)]	Loss: 0.231363
3383	Train Epoch: 49	[4000/8000 (50%)]	Loss: 0.237058
3384	Train Epoch: 49	[5000/8000 (62%)]	Loss: 0.311087
3385	Train Epoch: 49	[6000/8000 (75%)]	Loss: 0.294504
3386	Train Epoch: 49	[7000/8000 (88%)]	Loss: 0.394148
3387			
3388	Test set:	Avg. loss: 0.1351, Accuracy: 1930/2000 (96.500%)	
3389			
3390	New best test_loss:	0.13508959114551544!	
3391	Train Epoch: 50	[0/8000 (0%)]	Loss: 0.232354
3392	Train Epoch: 50	[1000/8000 (12%)]	Loss: 0.222782
3393	Train Epoch: 50	[2000/8000 (25%)]	Loss: 0.346620
3394	Train Epoch: 50	[3000/8000 (38%)]	Loss: 0.228747
3395	Train Epoch: 50	[4000/8000 (50%)]	Loss: 0.366244

3396	Train Epoch: 50	[5000/8000 (62%)]	Loss: 0.387239
3397	Train Epoch: 50	[6000/8000 (75%)]	Loss: 0.380147
3398	Train Epoch: 50	[7000/8000 (88%)]	Loss: 0.333857
3399			
3400	Test set:	Avg. loss: 0.1347, Accuracy: 1929/2000 (96.450%)	
3401			
3402	New best test_loss:	0.1347367912530899!	
3403	Train Epoch: 51	[0/8000 (0%)]	Loss: 0.173942
3404	Train Epoch: 51	[1000/8000 (12%)]	Loss: 0.264963
3405	Train Epoch: 51	[2000/8000 (25%)]	Loss: 0.380407
3406	Train Epoch: 51	[3000/8000 (38%)]	Loss: 0.280076
3407	Train Epoch: 51	[4000/8000 (50%)]	Loss: 0.305713
3408	Train Epoch: 51	[5000/8000 (62%)]	Loss: 0.342241
3409	Train Epoch: 51	[6000/8000 (75%)]	Loss: 0.192044
3410	Train Epoch: 51	[7000/8000 (88%)]	Loss: 0.347285
3411			
3412	Test set:	Avg. loss: 0.1330, Accuracy: 1933/2000 (96.650%)	
3413			
3414	New best test_loss:	0.13304418325424194!	
3415	Train Epoch: 52	[0/8000 (0%)]	Loss: 0.235683
3416	Train Epoch: 52	[1000/8000 (12%)]	Loss: 0.380810
3417	Train Epoch: 52	[2000/8000 (25%)]	Loss: 0.304150
3418	Train Epoch: 52	[3000/8000 (38%)]	Loss: 0.284278
3419	Train Epoch: 52	[4000/8000 (50%)]	Loss: 0.361511
3420	Train Epoch: 52	[5000/8000 (62%)]	Loss: 0.212822
3421	Train Epoch: 52	[6000/8000 (75%)]	Loss: 0.203990
3422	Train Epoch: 52	[7000/8000 (88%)]	Loss: 0.218551
3423			
3424	Test set:	Avg. loss: 0.1323, Accuracy: 1931/2000 (96.550%)	
3425			
3426	New best test_loss:	0.13229858875274658!	
3427	Train Epoch: 53	[0/8000 (0%)]	Loss: 0.226669
3428	Train Epoch: 53	[1000/8000 (12%)]	Loss: 0.277255
3429	Train Epoch: 53	[2000/8000 (25%)]	Loss: 0.455114
3430	Train Epoch: 53	[3000/8000 (38%)]	Loss: 0.216722
3431	Train Epoch: 53	[4000/8000 (50%)]	Loss: 0.447438
3432	Train Epoch: 53	[5000/8000 (62%)]	Loss: 0.342461
3433	Train Epoch: 53	[6000/8000 (75%)]	Loss: 0.256180

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3434 Train Epoch: 53 [7000/8000 (88%)] Loss: 0.302570
3435
3436 Test set: Avg. loss: 0.1308, Accuracy: 1932/2000 (96.600%)
3437
3438 New best test_loss: 0.13079258799552917!
3439 Train Epoch: 54 [0/8000 (0%)] Loss: 0.291185
3440 Train Epoch: 54 [1000/8000 (12%)] Loss: 0.221211
3441 Train Epoch: 54 [2000/8000 (25%)] Loss: 0.196028
3442 Train Epoch: 54 [3000/8000 (38%)] Loss: 0.292062
3443 Train Epoch: 54 [4000/8000 (50%)] Loss: 0.312989
3444 Train Epoch: 54 [5000/8000 (62%)] Loss: 0.282332
3445 Train Epoch: 54 [6000/8000 (75%)] Loss: 0.273246
3446 Train Epoch: 54 [7000/8000 (88%)] Loss: 0.424490
3447
3448 Test set: Avg. loss: 0.1294, Accuracy: 1930/2000 (96.500%)
3449
3450 New best test_loss: 0.1293865591287613!
3451 Train Epoch: 55 [0/8000 (0%)] Loss: 0.259322
3452 Train Epoch: 55 [1000/8000 (12%)] Loss: 0.265370
3453 Train Epoch: 55 [2000/8000 (25%)] Loss: 0.269328
3454 Train Epoch: 55 [3000/8000 (38%)] Loss: 0.236631
3455 Train Epoch: 55 [4000/8000 (50%)] Loss: 0.261095
3456 Train Epoch: 55 [5000/8000 (62%)] Loss: 0.328995
3457 Train Epoch: 55 [6000/8000 (75%)] Loss: 0.246240
3458 Train Epoch: 55 [7000/8000 (88%)] Loss: 0.338637
3459
3460 Test set: Avg. loss: 0.1270, Accuracy: 1930/2000 (96.500%)
3461
3462 New best test_loss: 0.12696416676044464!
3463 Train Epoch: 56 [0/8000 (0%)] Loss: 0.217693
3464 Train Epoch: 56 [1000/8000 (12%)] Loss: 0.260919
3465 Train Epoch: 56 [2000/8000 (25%)] Loss: 0.286660
3466 Train Epoch: 56 [3000/8000 (38%)] Loss: 0.355997
3467 Train Epoch: 56 [4000/8000 (50%)] Loss: 0.337341
3468 Train Epoch: 56 [5000/8000 (62%)] Loss: 0.295247
3469 Train Epoch: 56 [6000/8000 (75%)] Loss: 0.283658
3470 Train Epoch: 56 [7000/8000 (88%)] Loss: 0.401936
3471
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3472 Test set: Avg. loss: 0.1290, Accuracy: 1933/2000 (96.650%)
3473
3474 Train Epoch: 57 [0/8000 (0%)] Loss: 0.234944
3475 Train Epoch: 57 [1000/8000 (12%)] Loss: 0.254570
3476 Train Epoch: 57 [2000/8000 (25%)] Loss: 0.296382
3477 Train Epoch: 57 [3000/8000 (38%)] Loss: 0.261067
3478 Train Epoch: 57 [4000/8000 (50%)] Loss: 0.276779
3479 Train Epoch: 57 [5000/8000 (62%)] Loss: 0.488413
3480 Train Epoch: 57 [6000/8000 (75%)] Loss: 0.165713
3481 Train Epoch: 57 [7000/8000 (88%)] Loss: 0.206453
3482
3483 Test set: Avg. loss: 0.1257, Accuracy: 1931/2000 (96.550%)
3484
3485 New best test_loss: 0.12571430206298828!
3486 Train Epoch: 58 [0/8000 (0%)] Loss: 0.175093
3487 Train Epoch: 58 [1000/8000 (12%)] Loss: 0.217238
3488 Train Epoch: 58 [2000/8000 (25%)] Loss: 0.266636
3489 Train Epoch: 58 [3000/8000 (38%)] Loss: 0.267768
3490 Train Epoch: 58 [4000/8000 (50%)] Loss: 0.214990
3491 Train Epoch: 58 [5000/8000 (62%)] Loss: 0.289072
3492 Train Epoch: 58 [6000/8000 (75%)] Loss: 0.236179
3493 Train Epoch: 58 [7000/8000 (88%)] Loss: 0.238351
3494
3495 Test set: Avg. loss: 0.1286, Accuracy: 1926/2000 (96.300%)
3496
3497 Train Epoch: 59 [0/8000 (0%)] Loss: 0.268252
3498 Train Epoch: 59 [1000/8000 (12%)] Loss: 0.224323
3499 Train Epoch: 59 [2000/8000 (25%)] Loss: 0.354984
3500 Train Epoch: 59 [3000/8000 (38%)] Loss: 0.198796
3501 Train Epoch: 59 [4000/8000 (50%)] Loss: 0.274081
3502 Train Epoch: 59 [5000/8000 (62%)] Loss: 0.383752
3503 Train Epoch: 59 [6000/8000 (75%)] Loss: 0.192721
3504 Train Epoch: 59 [7000/8000 (88%)] Loss: 0.415243
3505
3506 Test set: Avg. loss: 0.1218, Accuracy: 1934/2000 (96.700%)
3507
3508 New best test_loss: 0.12182939797639847!
```

3509	Train Epoch: 60	[0/8000 (0%)]	Loss: 0.219293
3510	Train Epoch: 60	[1000/8000 (12%)]	Loss: 0.216971
3511	Train Epoch: 60	[2000/8000 (25%)]	Loss: 0.269580
3512	Train Epoch: 60	[3000/8000 (38%)]	Loss: 0.164110
3513	Train Epoch: 60	[4000/8000 (50%)]	Loss: 0.235121
3514	Train Epoch: 60	[5000/8000 (62%)]	Loss: 0.252183
3515	Train Epoch: 60	[6000/8000 (75%)]	Loss: 0.224116
3516	Train Epoch: 60	[7000/8000 (88%)]	Loss: 0.313042
3517			
3518	Test set:	Avg. loss: 0.1235, Accuracy: 1935/2000 (96.750%)	
3519			
3520	Train Epoch: 61	[0/8000 (0%)]	Loss: 0.174808
3521	Train Epoch: 61	[1000/8000 (12%)]	Loss: 0.238110
3522	Train Epoch: 61	[2000/8000 (25%)]	Loss: 0.257281
3523	Train Epoch: 61	[3000/8000 (38%)]	Loss: 0.342534
3524	Train Epoch: 61	[4000/8000 (50%)]	Loss: 0.248097
3525	Train Epoch: 61	[5000/8000 (62%)]	Loss: 0.206469
3526	Train Epoch: 61	[6000/8000 (75%)]	Loss: 0.232959
3527	Train Epoch: 61	[7000/8000 (88%)]	Loss: 0.299691
3528			
3529	Test set:	Avg. loss: 0.1242, Accuracy: 1937/2000 (96.850%)	
3530			
3531	Train Epoch: 62	[0/8000 (0%)]	Loss: 0.263815
3532	Train Epoch: 62	[1000/8000 (12%)]	Loss: 0.260061
3533	Train Epoch: 62	[2000/8000 (25%)]	Loss: 0.295076
3534	Train Epoch: 62	[3000/8000 (38%)]	Loss: 0.322747
3535	Train Epoch: 62	[4000/8000 (50%)]	Loss: 0.251597
3536	Train Epoch: 62	[5000/8000 (62%)]	Loss: 0.271746
3537	Train Epoch: 62	[6000/8000 (75%)]	Loss: 0.170877
3538	Train Epoch: 62	[7000/8000 (88%)]	Loss: 0.261554
3539			
3540	Test set:	Avg. loss: 0.1227, Accuracy: 1936/2000 (96.800%)	
3541			
3542	Train Epoch: 63	[0/8000 (0%)]	Loss: 0.258234
3543	Train Epoch: 63	[1000/8000 (12%)]	Loss: 0.235136
3544	Train Epoch: 63	[2000/8000 (25%)]	Loss: 0.276784
3545	Train Epoch: 63	[3000/8000 (38%)]	Loss: 0.210675
3546	Train Epoch: 63	[4000/8000 (50%)]	Loss: 0.274222

3547	Train Epoch: 63 [5000/8000 (62%)]	Loss: 0.273148
3548	Train Epoch: 63 [6000/8000 (75%)]	Loss: 0.244275
3549	Train Epoch: 63 [7000/8000 (88%)]	Loss: 0.264488
3550		
3551	Test set: Avg. loss: 0.1210, Accuracy: 1936/2000 (96.800%)	
3552		
3553	New best test_loss: 0.12104219943284988!	
3554	Train Epoch: 64 [0/8000 (0%)]	Loss: 0.218850
3555	Train Epoch: 64 [1000/8000 (12%)]	Loss: 0.322789
3556	Train Epoch: 64 [2000/8000 (25%)]	Loss: 0.257295
3557	Train Epoch: 64 [3000/8000 (38%)]	Loss: 0.272724
3558	Train Epoch: 64 [4000/8000 (50%)]	Loss: 0.351989
3559	Train Epoch: 64 [5000/8000 (62%)]	Loss: 0.330019
3560	Train Epoch: 64 [6000/8000 (75%)]	Loss: 0.152825
3561	Train Epoch: 64 [7000/8000 (88%)]	Loss: 0.459512
3562		
3563	Test set: Avg. loss: 0.1244, Accuracy: 1932/2000 (96.600%)	
3564		
3565	Train Epoch: 65 [0/8000 (0%)]	Loss: 0.243569
3566	Train Epoch: 65 [1000/8000 (12%)]	Loss: 0.255073
3567	Train Epoch: 65 [2000/8000 (25%)]	Loss: 0.170250
3568	Train Epoch: 65 [3000/8000 (38%)]	Loss: 0.328006
3569	Train Epoch: 65 [4000/8000 (50%)]	Loss: 0.241546
3570	Train Epoch: 65 [5000/8000 (62%)]	Loss: 0.418700
3571	Train Epoch: 65 [6000/8000 (75%)]	Loss: 0.241275
3572	Train Epoch: 65 [7000/8000 (88%)]	Loss: 0.261634
3573		
3574	Test set: Avg. loss: 0.1189, Accuracy: 1934/2000 (96.700%)	
3575		
3576	New best test_loss: 0.11886724084615707!	
3577	Train Epoch: 66 [0/8000 (0%)]	Loss: 0.143958
3578	Train Epoch: 66 [1000/8000 (12%)]	Loss: 0.162532
3579	Train Epoch: 66 [2000/8000 (25%)]	Loss: 0.333752
3580	Train Epoch: 66 [3000/8000 (38%)]	Loss: 0.210535
3581	Train Epoch: 66 [4000/8000 (50%)]	Loss: 0.238910
3582	Train Epoch: 66 [5000/8000 (62%)]	Loss: 0.161327
3583	Train Epoch: 66 [6000/8000 (75%)]	Loss: 0.192726
3584	Train Epoch: 66 [7000/8000 (88%)]	Loss: 0.370505

3585
3586 Test set: Avg. loss: 0.1170, Accuracy: 1936/2000 (96.800%)
3587
3588 New best test_loss: 0.1170232817530632!
3589 Train Epoch: 67 [0/8000 (0%)] Loss: 0.197234
3590 Train Epoch: 67 [1000/8000 (12%)] Loss: 0.298100
3591 Train Epoch: 67 [2000/8000 (25%)] Loss: 0.269704
3592 Train Epoch: 67 [3000/8000 (38%)] Loss: 0.194331
3593 Train Epoch: 67 [4000/8000 (50%)] Loss: 0.336283
3594 Train Epoch: 67 [5000/8000 (62%)] Loss: 0.333030
3595 Train Epoch: 67 [6000/8000 (75%)] Loss: 0.183889
3596 Train Epoch: 67 [7000/8000 (88%)] Loss: 0.296868
3597
3598 Test set: Avg. loss: 0.1181, Accuracy: 1935/2000 (96.750%)
3599
3600 Train Epoch: 68 [0/8000 (0%)] Loss: 0.169818
3601 Train Epoch: 68 [1000/8000 (12%)] Loss: 0.191410
3602 Train Epoch: 68 [2000/8000 (25%)] Loss: 0.325133
3603 Train Epoch: 68 [3000/8000 (38%)] Loss: 0.338428
3604 Train Epoch: 68 [4000/8000 (50%)] Loss: 0.274137
3605 Train Epoch: 68 [5000/8000 (62%)] Loss: 0.369861
3606 Train Epoch: 68 [6000/8000 (75%)] Loss: 0.210689
3607 Train Epoch: 68 [7000/8000 (88%)] Loss: 0.273844
3608
3609 Test set: Avg. loss: 0.1192, Accuracy: 1936/2000 (96.800%)
3610
3611 Train Epoch: 69 [0/8000 (0%)] Loss: 0.153384
3612 Train Epoch: 69 [1000/8000 (12%)] Loss: 0.228097
3613 Train Epoch: 69 [2000/8000 (25%)] Loss: 0.187277
3614 Train Epoch: 69 [3000/8000 (38%)] Loss: 0.254942
3615 Train Epoch: 69 [4000/8000 (50%)] Loss: 0.194362
3616 Train Epoch: 69 [5000/8000 (62%)] Loss: 0.377800
3617 Train Epoch: 69 [6000/8000 (75%)] Loss: 0.295595
3618 Train Epoch: 69 [7000/8000 (88%)] Loss: 0.326421
3619
3620 Test set: Avg. loss: 0.1136, Accuracy: 1933/2000 (96.650%)
3621

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3622 New best test_loss: 0.11364486813545227!
3623 Train Epoch: 70 [0/8000 (0%)] Loss: 0.196397
3624 Train Epoch: 70 [1000/8000 (12%)] Loss: 0.146498
3625 Train Epoch: 70 [2000/8000 (25%)] Loss: 0.250759
3626 Train Epoch: 70 [3000/8000 (38%)] Loss: 0.304031
3627 Train Epoch: 70 [4000/8000 (50%)] Loss: 0.242096
3628 Train Epoch: 70 [5000/8000 (62%)] Loss: 0.286512
3629 Train Epoch: 70 [6000/8000 (75%)] Loss: 0.162904
3630 Train Epoch: 70 [7000/8000 (88%)] Loss: 0.323209
3631
3632 Test set: Avg. loss: 0.1164, Accuracy: 1938/2000 (96.900%)
3633
3634 Train Epoch: 71 [0/8000 (0%)] Loss: 0.183985
3635 Train Epoch: 71 [1000/8000 (12%)] Loss: 0.272482
3636 Train Epoch: 71 [2000/8000 (25%)] Loss: 0.195669
3637 Train Epoch: 71 [3000/8000 (38%)] Loss: 0.204153
3638 Train Epoch: 71 [4000/8000 (50%)] Loss: 0.253974
3639 Train Epoch: 71 [5000/8000 (62%)] Loss: 0.271965
3640 Train Epoch: 71 [6000/8000 (75%)] Loss: 0.297178
3641 Train Epoch: 71 [7000/8000 (88%)] Loss: 0.355512
3642
3643 Test set: Avg. loss: 0.1194, Accuracy: 1930/2000 (96.500%)
3644
3645 Train Epoch: 72 [0/8000 (0%)] Loss: 0.167885
3646 Train Epoch: 72 [1000/8000 (12%)] Loss: 0.242168
3647 Train Epoch: 72 [2000/8000 (25%)] Loss: 0.318334
3648 Train Epoch: 72 [3000/8000 (38%)] Loss: 0.183827
3649 Train Epoch: 72 [4000/8000 (50%)] Loss: 0.242402
3650 Train Epoch: 72 [5000/8000 (62%)] Loss: 0.486386
3651 Train Epoch: 72 [6000/8000 (75%)] Loss: 0.173867
3652 Train Epoch: 72 [7000/8000 (88%)] Loss: 0.265444
3653
3654 Test set: Avg. loss: 0.1175, Accuracy: 1939/2000 (96.950%)
3655
3656 Train Epoch: 73 [0/8000 (0%)] Loss: 0.132241
3657 Train Epoch: 73 [1000/8000 (12%)] Loss: 0.180073
3658 Train Epoch: 73 [2000/8000 (25%)] Loss: 0.217489
3659 Train Epoch: 73 [3000/8000 (38%)] Loss: 0.207754
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3660	Train Epoch: 73 [4000/8000 (50%)]	Loss: 0.185970
3661	Train Epoch: 73 [5000/8000 (62%)]	Loss: 0.311214
3662	Train Epoch: 73 [6000/8000 (75%)]	Loss: 0.197577
3663	Train Epoch: 73 [7000/8000 (88%)]	Loss: 0.241997
3664		
3665	Test set: Avg. loss: 0.1201, Accuracy: 1938/2000 (96.900%)	
3666		
3667	Train Epoch: 74 [0/8000 (0%)]	Loss: 0.155046
3668	Train Epoch: 74 [1000/8000 (12%)]	Loss: 0.176105
3669	Train Epoch: 74 [2000/8000 (25%)]	Loss: 0.212680
3670	Train Epoch: 74 [3000/8000 (38%)]	Loss: 0.135175
3671	Train Epoch: 74 [4000/8000 (50%)]	Loss: 0.270026
3672	Train Epoch: 74 [5000/8000 (62%)]	Loss: 0.301506
3673	Train Epoch: 74 [6000/8000 (75%)]	Loss: 0.280041
3674	Train Epoch: 74 [7000/8000 (88%)]	Loss: 0.231952
3675		
3676	Test set: Avg. loss: 0.1157, Accuracy: 1936/2000 (96.800%)	
3677		
3678	Patience exceeded, concluding training after epoch 74	
3679	Train Epoch: 1 [0/8000 (0%)]	Loss: 2.307604
3680	Train Epoch: 1 [1000/8000 (12%)]	Loss: 2.307834
3681	Train Epoch: 1 [2000/8000 (25%)]	Loss: 2.303213
3682	Train Epoch: 1 [3000/8000 (38%)]	Loss: 2.298432
3683	Train Epoch: 1 [4000/8000 (50%)]	Loss: 2.303500
3684	Train Epoch: 1 [5000/8000 (62%)]	Loss: 2.298111
3685	Train Epoch: 1 [6000/8000 (75%)]	Loss: 2.307442
3686	Train Epoch: 1 [7000/8000 (88%)]	Loss: 2.319624
3687		
3688	Test set: Avg. loss: 2.3004, Accuracy: 209/2000 (10.450%)	
3689		
3690	New best test_loss: 2.300431251525879!	
3691	Train Epoch: 2 [0/8000 (0%)]	Loss: 2.304332
3692	Train Epoch: 2 [1000/8000 (12%)]	Loss: 2.306405
3693	Train Epoch: 2 [2000/8000 (25%)]	Loss: 2.292026
3694	Train Epoch: 2 [3000/8000 (38%)]	Loss: 2.287015
3695	Train Epoch: 2 [4000/8000 (50%)]	Loss: 2.298496
3696	Train Epoch: 2 [5000/8000 (62%)]	Loss: 2.291710

3697	Train Epoch: 2 [6000/8000 (75%)]	Loss: 2.306920
3698	Train Epoch: 2 [7000/8000 (88%)]	Loss: 2.304704
3699		
3700	Test set: Avg. loss: 2.2969, Accuracy: 385/2000 (19.250%)	
3701		
3702	New best test_loss: 2.296916961669922!	
3703	Train Epoch: 3 [0/8000 (0%)]	Loss: 2.293798
3704	Train Epoch: 3 [1000/8000 (12%)]	Loss: 2.299393
3705	Train Epoch: 3 [2000/8000 (25%)]	Loss: 2.292428
3706	Train Epoch: 3 [3000/8000 (38%)]	Loss: 2.285666
3707	Train Epoch: 3 [4000/8000 (50%)]	Loss: 2.295974
3708	Train Epoch: 3 [5000/8000 (62%)]	Loss: 2.284943
3709	Train Epoch: 3 [6000/8000 (75%)]	Loss: 2.299185
3710	Train Epoch: 3 [7000/8000 (88%)]	Loss: 2.303392
3711		
3712	Test set: Avg. loss: 2.2924, Accuracy: 347/2000 (17.350%)	
3713		
3714	New best test_loss: 2.2923810482025146!	
3715	Train Epoch: 4 [0/8000 (0%)]	Loss: 2.292993
3716	Train Epoch: 4 [1000/8000 (12%)]	Loss: 2.294192
3717	Train Epoch: 4 [2000/8000 (25%)]	Loss: 2.284758
3718	Train Epoch: 4 [3000/8000 (38%)]	Loss: 2.280584
3719	Train Epoch: 4 [4000/8000 (50%)]	Loss: 2.284366
3720	Train Epoch: 4 [5000/8000 (62%)]	Loss: 2.284398
3721	Train Epoch: 4 [6000/8000 (75%)]	Loss: 2.306575
3722	Train Epoch: 4 [7000/8000 (88%)]	Loss: 2.293457
3723		
3724	Test set: Avg. loss: 2.2870, Accuracy: 283/2000 (14.150%)	
3725		
3726	New best test_loss: 2.2869601249694824!	
3727	Train Epoch: 5 [0/8000 (0%)]	Loss: 2.284404
3728	Train Epoch: 5 [1000/8000 (12%)]	Loss: 2.280862
3729	Train Epoch: 5 [2000/8000 (25%)]	Loss: 2.287164
3730	Train Epoch: 5 [3000/8000 (38%)]	Loss: 2.279433
3731	Train Epoch: 5 [4000/8000 (50%)]	Loss: 2.282861
3732	Train Epoch: 5 [5000/8000 (62%)]	Loss: 2.273844
3733	Train Epoch: 5 [6000/8000 (75%)]	Loss: 2.300228
3734	Train Epoch: 5 [7000/8000 (88%)]	Loss: 2.283968

3735
3736 Test set: Avg. loss: 2.2776, Accuracy: 314/2000 (15 .700%)
3737
3738 New best test_loss: 2.2776436805725098!
3739 Train Epoch: 6 [0/8000 (0%)] Loss: 2.283458
3740 Train Epoch: 6 [1000/8000 (12%)] Loss: 2.288965
3741 Train Epoch: 6 [2000/8000 (25%)] Loss: 2.270461
3742 Train Epoch: 6 [3000/8000 (38%)] Loss: 2.279112
3743 Train Epoch: 6 [4000/8000 (50%)] Loss: 2.272942
3744 Train Epoch: 6 [5000/8000 (62%)] Loss: 2.263090
3745 Train Epoch: 6 [6000/8000 (75%)] Loss: 2.281896
3746 Train Epoch: 6 [7000/8000 (88%)] Loss: 2.276143
3747
3748 Test set: Avg. loss: 2.2626, Accuracy: 501/2000 (25 .050%)
3749
3750 New best test_loss: 2.262577772140503!
3751 Train Epoch: 7 [0/8000 (0%)] Loss: 2.270787
3752 Train Epoch: 7 [1000/8000 (12%)] Loss: 2.267496
3753 Train Epoch: 7 [2000/8000 (25%)] Loss: 2.244614
3754 Train Epoch: 7 [3000/8000 (38%)] Loss: 2.267937
3755 Train Epoch: 7 [4000/8000 (50%)] Loss: 2.248831
3756 Train Epoch: 7 [5000/8000 (62%)] Loss: 2.250531
3757 Train Epoch: 7 [6000/8000 (75%)] Loss: 2.280951
3758 Train Epoch: 7 [7000/8000 (88%)] Loss: 2.257493
3759
3760 Test set: Avg. loss: 2.2346, Accuracy: 542/2000 (27 .100%)
3761
3762 New best test_loss: 2.234633445739746!
3763 Train Epoch: 8 [0/8000 (0%)] Loss: 2.250606
3764 Train Epoch: 8 [1000/8000 (12%)] Loss: 2.250277
3765 Train Epoch: 8 [2000/8000 (25%)] Loss: 2.242179
3766 Train Epoch: 8 [3000/8000 (38%)] Loss: 2.214948
3767 Train Epoch: 8 [4000/8000 (50%)] Loss: 2.218690
3768 Train Epoch: 8 [5000/8000 (62%)] Loss: 2.202348
3769 Train Epoch: 8 [6000/8000 (75%)] Loss: 2.251809
3770 Train Epoch: 8 [7000/8000 (88%)] Loss: 2.210004
3771
3772 Test set: Avg. loss: 2.1777, Accuracy: 612/2000 (30

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3772 .600%)  
3773  
3774 New best test_loss: 2.1777215003967285!  
3775 Train Epoch: 9 [0/8000 (0%)] Loss: 2.152106  
3776 Train Epoch: 9 [1000/8000 (12%)] Loss: 2.183443  
3777 Train Epoch: 9 [2000/8000 (25%)] Loss: 2.181922  
3778 Train Epoch: 9 [3000/8000 (38%)] Loss: 2.154347  
3779 Train Epoch: 9 [4000/8000 (50%)] Loss: 2.156864  
3780 Train Epoch: 9 [5000/8000 (62%)] Loss: 2.133110  
3781 Train Epoch: 9 [6000/8000 (75%)] Loss: 2.213746  
3782 Train Epoch: 9 [7000/8000 (88%)] Loss: 2.065894  
3783  
3784 Test set: Avg. loss: 2.0503, Accuracy: 708/2000 (35 .400%)  
3785  
3786 New best test_loss: 2.050328016281128!  
3787 Train Epoch: 10 [0/8000 (0%)] Loss: 2.106640  
3788 Train Epoch: 10 [1000/8000 (12%)] Loss: 2.076380  
3789 Train Epoch: 10 [2000/8000 (25%)] Loss: 2.097138  
3790 Train Epoch: 10 [3000/8000 (38%)] Loss: 2.064959  
3791 Train Epoch: 10 [4000/8000 (50%)] Loss: 2.013430  
3792 Train Epoch: 10 [5000/8000 (62%)] Loss: 1.968347  
3793 Train Epoch: 10 [6000/8000 (75%)] Loss: 2.056963  
3794 Train Epoch: 10 [7000/8000 (88%)] Loss: 2.031360  
3795  
3796 Test set: Avg. loss: 1.8499, Accuracy: 843/2000 (42 .150%)  
3797  
3798 New best test_loss: 1.8499090671539307!  
3799 Train Epoch: 11 [0/8000 (0%)] Loss: 1.918686  
3800 Train Epoch: 11 [1000/8000 (12%)] Loss: 1.851041  
3801 Train Epoch: 11 [2000/8000 (25%)] Loss: 1.965267  
3802 Train Epoch: 11 [3000/8000 (38%)] Loss: 1.949527  
3803 Train Epoch: 11 [4000/8000 (50%)] Loss: 1.847484  
3804 Train Epoch: 11 [5000/8000 (62%)] Loss: 1.939466  
3805 Train Epoch: 11 [6000/8000 (75%)] Loss: 1.820119  
3806 Train Epoch: 11 [7000/8000 (88%)] Loss: 1.859006  
3807  
3808 Test set: Avg. loss: 1.6298, Accuracy: 1015/2000 ( 50.750%)  
3809
```

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3810 New best test_loss: 1.6298257112503052!
3811 Train Epoch: 12 [0/8000 (0%)] Loss: 1.702191
3812 Train Epoch: 12 [1000/8000 (12%)] Loss: 1.725415
3813 Train Epoch: 12 [2000/8000 (25%)] Loss: 1.705936
3814 Train Epoch: 12 [3000/8000 (38%)] Loss: 1.688823
3815 Train Epoch: 12 [4000/8000 (50%)] Loss: 1.715572
3816 Train Epoch: 12 [5000/8000 (62%)] Loss: 1.747474
3817 Train Epoch: 12 [6000/8000 (75%)] Loss: 1.690207
3818 Train Epoch: 12 [7000/8000 (88%)] Loss: 1.648442
3819
3820 Test set: Avg. loss: 1.4257, Accuracy: 1170/2000 (58.500%)
3821
3822 New best test_loss: 1.4256978034973145!
3823 Train Epoch: 13 [0/8000 (0%)] Loss: 1.600499
3824 Train Epoch: 13 [1000/8000 (12%)] Loss: 1.552287
3825 Train Epoch: 13 [2000/8000 (25%)] Loss: 1.539645
3826 Train Epoch: 13 [3000/8000 (38%)] Loss: 1.525715
3827 Train Epoch: 13 [4000/8000 (50%)] Loss: 1.532510
3828 Train Epoch: 13 [5000/8000 (62%)] Loss: 1.505343
3829 Train Epoch: 13 [6000/8000 (75%)] Loss: 1.507501
3830 Train Epoch: 13 [7000/8000 (88%)] Loss: 1.460416
3831
3832 Test set: Avg. loss: 1.2743, Accuracy: 1252/2000 (62.600%)
3833
3834 New best test_loss: 1.2742964029312134!
3835 Train Epoch: 14 [0/8000 (0%)] Loss: 1.452827
3836 Train Epoch: 14 [1000/8000 (12%)] Loss: 1.365071
3837 Train Epoch: 14 [2000/8000 (25%)] Loss: 1.448849
3838 Train Epoch: 14 [3000/8000 (38%)] Loss: 1.417961
3839 Train Epoch: 14 [4000/8000 (50%)] Loss: 1.436393
3840 Train Epoch: 14 [5000/8000 (62%)] Loss: 1.406083
3841 Train Epoch: 14 [6000/8000 (75%)] Loss: 1.347505
3842 Train Epoch: 14 [7000/8000 (88%)] Loss: 1.322315
3843
3844 Test set: Avg. loss: 1.1198, Accuracy: 1332/2000 (66.600%)
3845
3846 New best test_loss: 1.1197645664215088!
3847 Train Epoch: 15 [0/8000 (0%)] Loss: 1.297074
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3848	Train Epoch: 15	[1000/8000 (12%)]	Loss: 1.341176
3849	Train Epoch: 15	[2000/8000 (25%)]	Loss: 1.366742
3850	Train Epoch: 15	[3000/8000 (38%)]	Loss: 1.297703
3851	Train Epoch: 15	[4000/8000 (50%)]	Loss: 1.314937
3852	Train Epoch: 15	[5000/8000 (62%)]	Loss: 1.349740
3853	Train Epoch: 15	[6000/8000 (75%)]	Loss: 1.300071
3854	Train Epoch: 15	[7000/8000 (88%)]	Loss: 1.243985
3855			
3856	Test set:	Avg. loss: 1.0074, Accuracy: 1375/2000 (68.750%)	
3857			
3858	New best test_loss:	1.007380723953247!	
3859	Train Epoch: 16	[0/8000 (0%)]	Loss: 1.179316
3860	Train Epoch: 16	[1000/8000 (12%)]	Loss: 1.197580
3861	Train Epoch: 16	[2000/8000 (25%)]	Loss: 1.106392
3862	Train Epoch: 16	[3000/8000 (38%)]	Loss: 1.268840
3863	Train Epoch: 16	[4000/8000 (50%)]	Loss: 1.254935
3864	Train Epoch: 16	[5000/8000 (62%)]	Loss: 1.177405
3865	Train Epoch: 16	[6000/8000 (75%)]	Loss: 1.046275
3866	Train Epoch: 16	[7000/8000 (88%)]	Loss: 1.153928
3867			
3868	Test set:	Avg. loss: 0.8919, Accuracy: 1462/2000 (73.100%)	
3869			
3870	New best test_loss:	0.891947865486145!	
3871	Train Epoch: 17	[0/8000 (0%)]	Loss: 1.069816
3872	Train Epoch: 17	[1000/8000 (12%)]	Loss: 1.112594
3873	Train Epoch: 17	[2000/8000 (25%)]	Loss: 1.113682
3874	Train Epoch: 17	[3000/8000 (38%)]	Loss: 1.227265
3875	Train Epoch: 17	[4000/8000 (50%)]	Loss: 1.123096
3876	Train Epoch: 17	[5000/8000 (62%)]	Loss: 1.263069
3877	Train Epoch: 17	[6000/8000 (75%)]	Loss: 1.102787
3878	Train Epoch: 17	[7000/8000 (88%)]	Loss: 1.058451
3879			
3880	Test set:	Avg. loss: 0.8312, Accuracy: 1512/2000 (75.600%)	
3881			
3882	New best test_loss:	0.831219494342804!	
3883	Train Epoch: 18	[0/8000 (0%)]	Loss: 0.947807
3884	Train Epoch: 18	[1000/8000 (12%)]	Loss: 1.114177
3885	Train Epoch: 18	[2000/8000 (25%)]	Loss: 1.112139

3886	Train Epoch: 18	[3000/8000 (38%)]	Loss: 1.180723
3887	Train Epoch: 18	[4000/8000 (50%)]	Loss: 1.102378
3888	Train Epoch: 18	[5000/8000 (62%)]	Loss: 1.188607
3889	Train Epoch: 18	[6000/8000 (75%)]	Loss: 1.113672
3890	Train Epoch: 18	[7000/8000 (88%)]	Loss: 0.977865
3891			
3892	Test set:	Avg. loss: 0.7961, Accuracy: 1501/2000 (75.050%)	
3893			
3894	New best test_loss:	0.7960578799247742!	
3895	Train Epoch: 19	[0/8000 (0%)]	Loss: 1.071303
3896	Train Epoch: 19	[1000/8000 (12%)]	Loss: 1.022820
3897	Train Epoch: 19	[2000/8000 (25%)]	Loss: 0.971800
3898	Train Epoch: 19	[3000/8000 (38%)]	Loss: 1.081916
3899	Train Epoch: 19	[4000/8000 (50%)]	Loss: 1.091909
3900	Train Epoch: 19	[5000/8000 (62%)]	Loss: 1.076096
3901	Train Epoch: 19	[6000/8000 (75%)]	Loss: 0.909249
3902	Train Epoch: 19	[7000/8000 (88%)]	Loss: 0.910352
3903			
3904	Test set:	Avg. loss: 0.7600, Accuracy: 1568/2000 (78.400%)	
3905			
3906	New best test_loss:	0.7599893808364868!	
3907	Train Epoch: 20	[0/8000 (0%)]	Loss: 0.940793
3908	Train Epoch: 20	[1000/8000 (12%)]	Loss: 1.016676
3909	Train Epoch: 20	[2000/8000 (25%)]	Loss: 0.899482
3910	Train Epoch: 20	[3000/8000 (38%)]	Loss: 1.073693
3911	Train Epoch: 20	[4000/8000 (50%)]	Loss: 1.050934
3912	Train Epoch: 20	[5000/8000 (62%)]	Loss: 0.991789
3913	Train Epoch: 20	[6000/8000 (75%)]	Loss: 0.853858
3914	Train Epoch: 20	[7000/8000 (88%)]	Loss: 0.889595
3915			
3916	Test set:	Avg. loss: 0.7389, Accuracy: 1555/2000 (77.750%)	
3917			
3918	New best test_loss:	0.7389325499534607!	
3919	Train Epoch: 21	[0/8000 (0%)]	Loss: 0.876994
3920	Train Epoch: 21	[1000/8000 (12%)]	Loss: 0.908173
3921	Train Epoch: 21	[2000/8000 (25%)]	Loss: 1.037791
3922	Train Epoch: 21	[3000/8000 (38%)]	Loss: 1.070153
3923	Train Epoch: 21	[4000/8000 (50%)]	Loss: 0.990196

3924	Train Epoch: 21 [5000/8000 (62%)]	Loss: 1.019403
3925	Train Epoch: 21 [6000/8000 (75%)]	Loss: 0.993512
3926	Train Epoch: 21 [7000/8000 (88%)]	Loss: 0.940157
3927		
3928	Test set: Avg. loss: 0.7126, Accuracy: 1580/2000 (79.000%)	
3929		
3930	New best test_loss: 0.7125656604766846!	
3931	Train Epoch: 22 [0/8000 (0%)]	Loss: 0.856838
3932	Train Epoch: 22 [1000/8000 (12%)]	Loss: 0.925694
3933	Train Epoch: 22 [2000/8000 (25%)]	Loss: 0.962021
3934	Train Epoch: 22 [3000/8000 (38%)]	Loss: 0.995339
3935	Train Epoch: 22 [4000/8000 (50%)]	Loss: 0.911741
3936	Train Epoch: 22 [5000/8000 (62%)]	Loss: 1.023332
3937	Train Epoch: 22 [6000/8000 (75%)]	Loss: 0.931484
3938	Train Epoch: 22 [7000/8000 (88%)]	Loss: 0.932711
3939		
3940	Test set: Avg. loss: 0.6784, Accuracy: 1614/2000 (80.700%)	
3941		
3942	New best test_loss: 0.678425669670105!	
3943	Train Epoch: 23 [0/8000 (0%)]	Loss: 0.848117
3944	Train Epoch: 23 [1000/8000 (12%)]	Loss: 0.916317
3945	Train Epoch: 23 [2000/8000 (25%)]	Loss: 0.831643
3946	Train Epoch: 23 [3000/8000 (38%)]	Loss: 0.930089
3947	Train Epoch: 23 [4000/8000 (50%)]	Loss: 0.913780
3948	Train Epoch: 23 [5000/8000 (62%)]	Loss: 1.051703
3949	Train Epoch: 23 [6000/8000 (75%)]	Loss: 0.863721
3950	Train Epoch: 23 [7000/8000 (88%)]	Loss: 0.849361
3951		
3952	Test set: Avg. loss: 0.6679, Accuracy: 1611/2000 (80.550%)	
3953		
3954	New best test_loss: 0.6679167151451111!	
3955	Train Epoch: 24 [0/8000 (0%)]	Loss: 0.857549
3956	Train Epoch: 24 [1000/8000 (12%)]	Loss: 0.813961
3957	Train Epoch: 24 [2000/8000 (25%)]	Loss: 0.937980
3958	Train Epoch: 24 [3000/8000 (38%)]	Loss: 0.944835
3959	Train Epoch: 24 [4000/8000 (50%)]	Loss: 0.904989
3960	Train Epoch: 24 [5000/8000 (62%)]	Loss: 0.861079
3961	Train Epoch: 24 [6000/8000 (75%)]	Loss: 0.851525

3962	Train Epoch: 24 [7000/8000 (88%)]	Loss: 0.801282
3963		
3964	Test set: Avg. loss: 0.6491, Accuracy: 1630/2000 (81.500%)	
3965		
3966	New best test_loss: 0.6490736603736877!	
3967	Train Epoch: 25 [0/8000 (0%)]	Loss: 0.813609
3968	Train Epoch: 25 [1000/8000 (12%)]	Loss: 0.855320
3969	Train Epoch: 25 [2000/8000 (25%)]	Loss: 0.906919
3970	Train Epoch: 25 [3000/8000 (38%)]	Loss: 0.960423
3971	Train Epoch: 25 [4000/8000 (50%)]	Loss: 0.906598
3972	Train Epoch: 25 [5000/8000 (62%)]	Loss: 0.906538
3973	Train Epoch: 25 [6000/8000 (75%)]	Loss: 0.879176
3974	Train Epoch: 25 [7000/8000 (88%)]	Loss: 0.828029
3975		
3976	Test set: Avg. loss: 0.6299, Accuracy: 1636/2000 (81.800%)	
3977		
3978	New best test_loss: 0.6299405097961426!	
3979	Train Epoch: 26 [0/8000 (0%)]	Loss: 0.683049
3980	Train Epoch: 26 [1000/8000 (12%)]	Loss: 0.785016
3981	Train Epoch: 26 [2000/8000 (25%)]	Loss: 0.726760
3982	Train Epoch: 26 [3000/8000 (38%)]	Loss: 0.975083
3983	Train Epoch: 26 [4000/8000 (50%)]	Loss: 0.890760
3984	Train Epoch: 26 [5000/8000 (62%)]	Loss: 0.917093
3985	Train Epoch: 26 [6000/8000 (75%)]	Loss: 0.859202
3986	Train Epoch: 26 [7000/8000 (88%)]	Loss: 0.758237
3987		
3988	Test set: Avg. loss: 0.6272, Accuracy: 1661/2000 (83.050%)	
3989		
3990	New best test_loss: 0.6271770000457764!	
3991	Train Epoch: 27 [0/8000 (0%)]	Loss: 0.805989
3992	Train Epoch: 27 [1000/8000 (12%)]	Loss: 0.858445
3993	Train Epoch: 27 [2000/8000 (25%)]	Loss: 0.788103
3994	Train Epoch: 27 [3000/8000 (38%)]	Loss: 0.951162
3995	Train Epoch: 27 [4000/8000 (50%)]	Loss: 0.815815
3996	Train Epoch: 27 [5000/8000 (62%)]	Loss: 0.928722
3997	Train Epoch: 27 [6000/8000 (75%)]	Loss: 0.836919
3998	Train Epoch: 27 [7000/8000 (88%)]	Loss: 0.787905
3999		

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4000 Test set: Avg. loss: 0.6162, Accuracy: 1652/2000 (82.600%)
4001
4002 New best test_loss: 0.6161941289901733!
4003 Train Epoch: 28 [0/8000 (0%)] Loss: 0.840204
4004 Train Epoch: 28 [1000/8000 (12%)] Loss: 0.727027
4005 Train Epoch: 28 [2000/8000 (25%)] Loss: 0.676268
4006 Train Epoch: 28 [3000/8000 (38%)] Loss: 0.847512
4007 Train Epoch: 28 [4000/8000 (50%)] Loss: 0.793624
4008 Train Epoch: 28 [5000/8000 (62%)] Loss: 0.771564
4009 Train Epoch: 28 [6000/8000 (75%)] Loss: 0.877585
4010 Train Epoch: 28 [7000/8000 (88%)] Loss: 0.776425
4011
4012 Test set: Avg. loss: 0.5882, Accuracy: 1675/2000 (83.750%)
4013
4014 New best test_loss: 0.588158369064331!
4015 Train Epoch: 29 [0/8000 (0%)] Loss: 0.796701
4016 Train Epoch: 29 [1000/8000 (12%)] Loss: 0.737243
4017 Train Epoch: 29 [2000/8000 (25%)] Loss: 0.895444
4018 Train Epoch: 29 [3000/8000 (38%)] Loss: 0.935721
4019 Train Epoch: 29 [4000/8000 (50%)] Loss: 0.833389
4020 Train Epoch: 29 [5000/8000 (62%)] Loss: 0.898925
4021 Train Epoch: 29 [6000/8000 (75%)] Loss: 0.895087
4022 Train Epoch: 29 [7000/8000 (88%)] Loss: 0.841400
4023
4024 Test set: Avg. loss: 0.5747, Accuracy: 1676/2000 (83.800%)
4025
4026 New best test_loss: 0.5747202038764954!
4027 Train Epoch: 30 [0/8000 (0%)] Loss: 0.767634
4028 Train Epoch: 30 [1000/8000 (12%)] Loss: 0.721237
4029 Train Epoch: 30 [2000/8000 (25%)] Loss: 0.809305
4030 Train Epoch: 30 [3000/8000 (38%)] Loss: 0.828226
4031 Train Epoch: 30 [4000/8000 (50%)] Loss: 0.839264
4032 Train Epoch: 30 [5000/8000 (62%)] Loss: 0.869977
4033 Train Epoch: 30 [6000/8000 (75%)] Loss: 0.772992
4034 Train Epoch: 30 [7000/8000 (88%)] Loss: 0.738832
4035
4036 Test set: Avg. loss: 0.5568, Accuracy: 1691/2000 (84.550%)
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4037
4038 New best test_loss: 0.5568122267723083!
4039 Train Epoch: 31 [0/8000 (0%)] Loss: 0.684418
4040 Train Epoch: 31 [1000/8000 (12%)] Loss: 0.804029
4041 Train Epoch: 31 [2000/8000 (25%)] Loss: 0.830534
4042 Train Epoch: 31 [3000/8000 (38%)] Loss: 0.942008
4043 Train Epoch: 31 [4000/8000 (50%)] Loss: 0.854765
4044 Train Epoch: 31 [5000/8000 (62%)] Loss: 0.807945
4045 Train Epoch: 31 [6000/8000 (75%)] Loss: 0.869340
4046 Train Epoch: 31 [7000/8000 (88%)] Loss: 0.722169
4047
4048 Test set: Avg. loss: 0.5655, Accuracy: 1688/2000 (84.400%)
4049
4050 Train Epoch: 32 [0/8000 (0%)] Loss: 0.723763
4051 Train Epoch: 32 [1000/8000 (12%)] Loss: 0.749069
4052 Train Epoch: 32 [2000/8000 (25%)] Loss: 0.846093
4053 Train Epoch: 32 [3000/8000 (38%)] Loss: 0.708577
4054 Train Epoch: 32 [4000/8000 (50%)] Loss: 0.709495
4055 Train Epoch: 32 [5000/8000 (62%)] Loss: 0.895878
4056 Train Epoch: 32 [6000/8000 (75%)] Loss: 0.872976
4057 Train Epoch: 32 [7000/8000 (88%)] Loss: 0.841263
4058
4059 Test set: Avg. loss: 0.5557, Accuracy: 1685/2000 (84.250%)
4060
4061 New best test_loss: 0.5556727051734924!
4062 Train Epoch: 33 [0/8000 (0%)] Loss: 0.775662
4063 Train Epoch: 33 [1000/8000 (12%)] Loss: 0.662749
4064 Train Epoch: 33 [2000/8000 (25%)] Loss: 0.754794
4065 Train Epoch: 33 [3000/8000 (38%)] Loss: 0.772653
4066 Train Epoch: 33 [4000/8000 (50%)] Loss: 0.805777
4067 Train Epoch: 33 [5000/8000 (62%)] Loss: 0.740611
4068 Train Epoch: 33 [6000/8000 (75%)] Loss: 0.818766
4069 Train Epoch: 33 [7000/8000 (88%)] Loss: 0.651287
4070
4071 Test set: Avg. loss: 0.5338, Accuracy: 1699/2000 (84.950%)
4072
4073 New best test_loss: 0.5338485240936279!
4074 Train Epoch: 34 [0/8000 (0%)] Loss: 0.683206
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4075	Train Epoch: 34	[1000/8000 (12%)]	Loss: 0.725298
4076	Train Epoch: 34	[2000/8000 (25%)]	Loss: 0.700698
4077	Train Epoch: 34	[3000/8000 (38%)]	Loss: 0.768052
4078	Train Epoch: 34	[4000/8000 (50%)]	Loss: 0.883955
4079	Train Epoch: 34	[5000/8000 (62%)]	Loss: 0.813784
4080	Train Epoch: 34	[6000/8000 (75%)]	Loss: 0.753963
4081	Train Epoch: 34	[7000/8000 (88%)]	Loss: 0.689718
4082			
4083	Test set:	Avg. loss: 0.5433, Accuracy: 1696/2000 (84.800%)	
4084			
4085	Train Epoch: 35	[0/8000 (0%)]	Loss: 0.702876
4086	Train Epoch: 35	[1000/8000 (12%)]	Loss: 0.729193
4087	Train Epoch: 35	[2000/8000 (25%)]	Loss: 0.732073
4088	Train Epoch: 35	[3000/8000 (38%)]	Loss: 0.857731
4089	Train Epoch: 35	[4000/8000 (50%)]	Loss: 0.811975
4090	Train Epoch: 35	[5000/8000 (62%)]	Loss: 0.876171
4091	Train Epoch: 35	[6000/8000 (75%)]	Loss: 0.855509
4092	Train Epoch: 35	[7000/8000 (88%)]	Loss: 0.688785
4093			
4094	Test set:	Avg. loss: 0.5332, Accuracy: 1706/2000 (85.300%)	
4095			
4096	New best test_loss:	0.5331730246543884!	
4097	Train Epoch: 36	[0/8000 (0%)]	Loss: 0.711258
4098	Train Epoch: 36	[1000/8000 (12%)]	Loss: 0.679343
4099	Train Epoch: 36	[2000/8000 (25%)]	Loss: 0.686692
4100	Train Epoch: 36	[3000/8000 (38%)]	Loss: 0.874001
4101	Train Epoch: 36	[4000/8000 (50%)]	Loss: 0.902978
4102	Train Epoch: 36	[5000/8000 (62%)]	Loss: 0.814411
4103	Train Epoch: 36	[6000/8000 (75%)]	Loss: 0.859289
4104	Train Epoch: 36	[7000/8000 (88%)]	Loss: 0.682695
4105			
4106	Test set:	Avg. loss: 0.5101, Accuracy: 1722/2000 (86.100%)	
4107			
4108	New best test_loss:	0.5100575089454651!	
4109	Train Epoch: 37	[0/8000 (0%)]	Loss: 0.676068
4110	Train Epoch: 37	[1000/8000 (12%)]	Loss: 0.682792
4111	Train Epoch: 37	[2000/8000 (25%)]	Loss: 0.803900
4112	Train Epoch: 37	[3000/8000 (38%)]	Loss: 0.815339

4113	Train Epoch: 37 [4000/8000 (50%)]	Loss: 0.859200
4114	Train Epoch: 37 [5000/8000 (62%)]	Loss: 0.756753
4115	Train Epoch: 37 [6000/8000 (75%)]	Loss: 0.858012
4116	Train Epoch: 37 [7000/8000 (88%)]	Loss: 0.709783
4117		
4118	Test set: Avg. loss: 0.5108, Accuracy: 1705/2000 (85.250%)	
4119		
4120	Train Epoch: 38 [0/8000 (0%)]	Loss: 0.574610
4121	Train Epoch: 38 [1000/8000 (12%)]	Loss: 0.662956
4122	Train Epoch: 38 [2000/8000 (25%)]	Loss: 0.710380
4123	Train Epoch: 38 [3000/8000 (38%)]	Loss: 0.793275
4124	Train Epoch: 38 [4000/8000 (50%)]	Loss: 0.748663
4125	Train Epoch: 38 [5000/8000 (62%)]	Loss: 0.798381
4126	Train Epoch: 38 [6000/8000 (75%)]	Loss: 0.848530
4127	Train Epoch: 38 [7000/8000 (88%)]	Loss: 0.780825
4128		
4129	Test set: Avg. loss: 0.5139, Accuracy: 1713/2000 (85.650%)	
4130		
4131	Train Epoch: 39 [0/8000 (0%)]	Loss: 0.714697
4132	Train Epoch: 39 [1000/8000 (12%)]	Loss: 0.602726
4133	Train Epoch: 39 [2000/8000 (25%)]	Loss: 0.655710
4134	Train Epoch: 39 [3000/8000 (38%)]	Loss: 0.875915
4135	Train Epoch: 39 [4000/8000 (50%)]	Loss: 0.700814
4136	Train Epoch: 39 [5000/8000 (62%)]	Loss: 0.798625
4137	Train Epoch: 39 [6000/8000 (75%)]	Loss: 0.788926
4138	Train Epoch: 39 [7000/8000 (88%)]	Loss: 0.729787
4139		
4140	Test set: Avg. loss: 0.5010, Accuracy: 1709/2000 (85.450%)	
4141		
4142	New best test_loss: 0.5010223388671875!	
4143	Train Epoch: 40 [0/8000 (0%)]	Loss: 0.672608
4144	Train Epoch: 40 [1000/8000 (12%)]	Loss: 0.739590
4145	Train Epoch: 40 [2000/8000 (25%)]	Loss: 0.575585
4146	Train Epoch: 40 [3000/8000 (38%)]	Loss: 0.761230
4147	Train Epoch: 40 [4000/8000 (50%)]	Loss: 0.843956
4148	Train Epoch: 40 [5000/8000 (62%)]	Loss: 0.836547
4149	Train Epoch: 40 [6000/8000 (75%)]	Loss: 0.747662
4150	Train Epoch: 40 [7000/8000 (88%)]	Loss: 0.716937

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4151
4152 Test set: Avg. loss: 0.4961, Accuracy: 1716/2000 (
    85.800%)
4153
4154 New best test_loss: 0.49607357382774353!
4155 Train Epoch: 41 [0/8000 (0%)] Loss: 0.633477
4156 Train Epoch: 41 [1000/8000 (12%)] Loss: 0.647616
4157 Train Epoch: 41 [2000/8000 (25%)] Loss: 0.617187
4158 Train Epoch: 41 [3000/8000 (38%)] Loss: 0.748137
4159 Train Epoch: 41 [4000/8000 (50%)] Loss: 0.766598
4160 Train Epoch: 41 [5000/8000 (62%)] Loss: 0.782587
4161 Train Epoch: 41 [6000/8000 (75%)] Loss: 0.747268
4162 Train Epoch: 41 [7000/8000 (88%)] Loss: 0.674860
4163
4164 Test set: Avg. loss: 0.4841, Accuracy: 1718/2000 (
    85.900%)
4165
4166 New best test_loss: 0.4841180145740509!
4167 Train Epoch: 42 [0/8000 (0%)] Loss: 0.603677
4168 Train Epoch: 42 [1000/8000 (12%)] Loss: 0.684995
4169 Train Epoch: 42 [2000/8000 (25%)] Loss: 0.562449
4170 Train Epoch: 42 [3000/8000 (38%)] Loss: 0.695865
4171 Train Epoch: 42 [4000/8000 (50%)] Loss: 0.836188
4172 Train Epoch: 42 [5000/8000 (62%)] Loss: 0.742830
4173 Train Epoch: 42 [6000/8000 (75%)] Loss: 0.645655
4174 Train Epoch: 42 [7000/8000 (88%)] Loss: 0.690191
4175
4176 Test set: Avg. loss: 0.4749, Accuracy: 1738/2000 (
    86.900%)
4177
4178 New best test_loss: 0.4749223589897156!
4179 Train Epoch: 43 [0/8000 (0%)] Loss: 0.579228
4180 Train Epoch: 43 [1000/8000 (12%)] Loss: 0.662494
4181 Train Epoch: 43 [2000/8000 (25%)] Loss: 0.612701
4182 Train Epoch: 43 [3000/8000 (38%)] Loss: 0.739391
4183 Train Epoch: 43 [4000/8000 (50%)] Loss: 0.821535
4184 Train Epoch: 43 [5000/8000 (62%)] Loss: 0.756976
4185 Train Epoch: 43 [6000/8000 (75%)] Loss: 0.690280
4186 Train Epoch: 43 [7000/8000 (88%)] Loss: 0.657863
4187
4188 Test set: Avg. loss: 0.4738, Accuracy: 1730/2000 (
```

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4188 86.500%)  
4189  
4190 New best test_loss: 0.4738404452800751!  
4191 Train Epoch: 44 [0/8000 (0%)] Loss: 0.588709  
4192 Train Epoch: 44 [1000/8000 (12%)] Loss: 0.612281  
4193 Train Epoch: 44 [2000/8000 (25%)] Loss: 0.648255  
4194 Train Epoch: 44 [3000/8000 (38%)] Loss: 0.848214  
4195 Train Epoch: 44 [4000/8000 (50%)] Loss: 0.836235  
4196 Train Epoch: 44 [5000/8000 (62%)] Loss: 0.674123  
4197 Train Epoch: 44 [6000/8000 (75%)] Loss: 0.703554  
4198 Train Epoch: 44 [7000/8000 (88%)] Loss: 0.602424  
4199  
4200 Test set: Avg. loss: 0.4613, Accuracy: 1732/2000 (86.600%)  
4201  
4202 New best test_loss: 0.46131423115730286!  
4203 Train Epoch: 45 [0/8000 (0%)] Loss: 0.692024  
4204 Train Epoch: 45 [1000/8000 (12%)] Loss: 0.626000  
4205 Train Epoch: 45 [2000/8000 (25%)] Loss: 0.631834  
4206 Train Epoch: 45 [3000/8000 (38%)] Loss: 0.888331  
4207 Train Epoch: 45 [4000/8000 (50%)] Loss: 0.654037  
4208 Train Epoch: 45 [5000/8000 (62%)] Loss: 0.667981  
4209 Train Epoch: 45 [6000/8000 (75%)] Loss: 0.713178  
4210 Train Epoch: 45 [7000/8000 (88%)] Loss: 0.647343  
4211  
4212 Test set: Avg. loss: 0.4651, Accuracy: 1723/2000 (86.150%)  
4213  
4214 Train Epoch: 46 [0/8000 (0%)] Loss: 0.594660  
4215 Train Epoch: 46 [1000/8000 (12%)] Loss: 0.658776  
4216 Train Epoch: 46 [2000/8000 (25%)] Loss: 0.676860  
4217 Train Epoch: 46 [3000/8000 (38%)] Loss: 0.752585  
4218 Train Epoch: 46 [4000/8000 (50%)] Loss: 0.769958  
4219 Train Epoch: 46 [5000/8000 (62%)] Loss: 0.636239  
4220 Train Epoch: 46 [6000/8000 (75%)] Loss: 0.695622  
4221 Train Epoch: 46 [7000/8000 (88%)] Loss: 0.663811  
4222  
4223 Test set: Avg. loss: 0.4633, Accuracy: 1734/2000 (86.700%)  
4224  
4225 Train Epoch: 47 [0/8000 (0%)] Loss: 0.569367
```

4226	Train Epoch: 47	[1000/8000 (12%)]	Loss: 0.620795
4227	Train Epoch: 47	[2000/8000 (25%)]	Loss: 0.691430
4228	Train Epoch: 47	[3000/8000 (38%)]	Loss: 0.669650
4229	Train Epoch: 47	[4000/8000 (50%)]	Loss: 0.633072
4230	Train Epoch: 47	[5000/8000 (62%)]	Loss: 0.798426
4231	Train Epoch: 47	[6000/8000 (75%)]	Loss: 0.681589
4232	Train Epoch: 47	[7000/8000 (88%)]	Loss: 0.633395
4233			
4234	Test set:	Avg. loss: 0.4594, Accuracy: 1742/2000 (87.100%)	
4235			
4236	New best test_loss: 0.4593777358531952!		
4237	Train Epoch: 48	[0/8000 (0%)]	Loss: 0.575353
4238	Train Epoch: 48	[1000/8000 (12%)]	Loss: 0.726731
4239	Train Epoch: 48	[2000/8000 (25%)]	Loss: 0.625776
4240	Train Epoch: 48	[3000/8000 (38%)]	Loss: 0.603318
4241	Train Epoch: 48	[4000/8000 (50%)]	Loss: 0.764509
4242	Train Epoch: 48	[5000/8000 (62%)]	Loss: 0.777361
4243	Train Epoch: 48	[6000/8000 (75%)]	Loss: 0.589251
4244	Train Epoch: 48	[7000/8000 (88%)]	Loss: 0.602886
4245			
4246	Test set:	Avg. loss: 0.4534, Accuracy: 1739/2000 (86.950%)	
4247			
4248	New best test_loss: 0.4533529281616211!		
4249	Train Epoch: 49	[0/8000 (0%)]	Loss: 0.641527
4250	Train Epoch: 49	[1000/8000 (12%)]	Loss: 0.638516
4251	Train Epoch: 49	[2000/8000 (25%)]	Loss: 0.662867
4252	Train Epoch: 49	[3000/8000 (38%)]	Loss: 0.677197
4253	Train Epoch: 49	[4000/8000 (50%)]	Loss: 0.777366
4254	Train Epoch: 49	[5000/8000 (62%)]	Loss: 0.830686
4255	Train Epoch: 49	[6000/8000 (75%)]	Loss: 0.694996
4256	Train Epoch: 49	[7000/8000 (88%)]	Loss: 0.630353
4257			
4258	Test set:	Avg. loss: 0.4390, Accuracy: 1740/2000 (87.000%)	
4259			
4260	New best test_loss: 0.43903011083602905!		
4261	Train Epoch: 50	[0/8000 (0%)]	Loss: 0.565214
4262	Train Epoch: 50	[1000/8000 (12%)]	Loss: 0.534271
4263	Train Epoch: 50	[2000/8000 (25%)]	Loss: 0.714158

4264	Train Epoch: 50	[3000/8000 (38%)]	Loss: 0.775786
4265	Train Epoch: 50	[4000/8000 (50%)]	Loss: 0.725727
4266	Train Epoch: 50	[5000/8000 (62%)]	Loss: 0.639468
4267	Train Epoch: 50	[6000/8000 (75%)]	Loss: 0.645242
4268	Train Epoch: 50	[7000/8000 (88%)]	Loss: 0.572130
4269			
4270	Test set:	Avg. loss: 0.4502, Accuracy: 1744/2000 (87.200%)	
4271			
4272	Train Epoch: 51	[0/8000 (0%)]	Loss: 0.565538
4273	Train Epoch: 51	[1000/8000 (12%)]	Loss: 0.570233
4274	Train Epoch: 51	[2000/8000 (25%)]	Loss: 0.576398
4275	Train Epoch: 51	[3000/8000 (38%)]	Loss: 0.812218
4276	Train Epoch: 51	[4000/8000 (50%)]	Loss: 0.602104
4277	Train Epoch: 51	[5000/8000 (62%)]	Loss: 0.609365
4278	Train Epoch: 51	[6000/8000 (75%)]	Loss: 0.716961
4279	Train Epoch: 51	[7000/8000 (88%)]	Loss: 0.564645
4280			
4281	Test set:	Avg. loss: 0.4267, Accuracy: 1747/2000 (87.350%)	
4282			
4283	New best test_loss: 0.4267117977142334!		
4284	Train Epoch: 52	[0/8000 (0%)]	Loss: 0.652098
4285	Train Epoch: 52	[1000/8000 (12%)]	Loss: 0.622750
4286	Train Epoch: 52	[2000/8000 (25%)]	Loss: 0.535085
4287	Train Epoch: 52	[3000/8000 (38%)]	Loss: 0.634153
4288	Train Epoch: 52	[4000/8000 (50%)]	Loss: 0.649012
4289	Train Epoch: 52	[5000/8000 (62%)]	Loss: 0.764732
4290	Train Epoch: 52	[6000/8000 (75%)]	Loss: 0.703876
4291	Train Epoch: 52	[7000/8000 (88%)]	Loss: 0.627136
4292			
4293	Test set:	Avg. loss: 0.4253, Accuracy: 1754/2000 (87.700%)	
4294			
4295	New best test_loss: 0.4252748191356659!		
4296	Train Epoch: 53	[0/8000 (0%)]	Loss: 0.656166
4297	Train Epoch: 53	[1000/8000 (12%)]	Loss: 0.632572
4298	Train Epoch: 53	[2000/8000 (25%)]	Loss: 0.562689
4299	Train Epoch: 53	[3000/8000 (38%)]	Loss: 0.719946
4300	Train Epoch: 53	[4000/8000 (50%)]	Loss: 0.727956
4301	Train Epoch: 53	[5000/8000 (62%)]	Loss: 0.575512

4302	Train Epoch: 53 [6000/8000 (75%)]	Loss: 0.733262
4303	Train Epoch: 53 [7000/8000 (88%)]	Loss: 0.569115
4304		
4305	Test set: Avg. loss: 0.4245, Accuracy: 1753/2000 (87.650%)	
4306		
4307	New best test_loss: 0.4245394468307495!	
4308	Train Epoch: 54 [0/8000 (0%)]	Loss: 0.517504
4309	Train Epoch: 54 [1000/8000 (12%)]	Loss: 0.576698
4310	Train Epoch: 54 [2000/8000 (25%)]	Loss: 0.526592
4311	Train Epoch: 54 [3000/8000 (38%)]	Loss: 0.678025
4312	Train Epoch: 54 [4000/8000 (50%)]	Loss: 0.873996
4313	Train Epoch: 54 [5000/8000 (62%)]	Loss: 0.687603
4314	Train Epoch: 54 [6000/8000 (75%)]	Loss: 0.688760
4315	Train Epoch: 54 [7000/8000 (88%)]	Loss: 0.718568
4316		
4317	Test set: Avg. loss: 0.4227, Accuracy: 1749/2000 (87.450%)	
4318		
4319	New best test_loss: 0.4226795732975006!	
4320	Train Epoch: 55 [0/8000 (0%)]	Loss: 0.472934
4321	Train Epoch: 55 [1000/8000 (12%)]	Loss: 0.645717
4322	Train Epoch: 55 [2000/8000 (25%)]	Loss: 0.658621
4323	Train Epoch: 55 [3000/8000 (38%)]	Loss: 0.752325
4324	Train Epoch: 55 [4000/8000 (50%)]	Loss: 0.715464
4325	Train Epoch: 55 [5000/8000 (62%)]	Loss: 0.985764
4326	Train Epoch: 55 [6000/8000 (75%)]	Loss: 0.667469
4327	Train Epoch: 55 [7000/8000 (88%)]	Loss: 0.678885
4328		
4329	Test set: Avg. loss: 0.4223, Accuracy: 1754/2000 (87.700%)	
4330		
4331	New best test_loss: 0.4223440885543823!	
4332	Train Epoch: 56 [0/8000 (0%)]	Loss: 0.520012
4333	Train Epoch: 56 [1000/8000 (12%)]	Loss: 0.515919
4334	Train Epoch: 56 [2000/8000 (25%)]	Loss: 0.563933
4335	Train Epoch: 56 [3000/8000 (38%)]	Loss: 0.765228
4336	Train Epoch: 56 [4000/8000 (50%)]	Loss: 0.701830
4337	Train Epoch: 56 [5000/8000 (62%)]	Loss: 0.619044
4338	Train Epoch: 56 [6000/8000 (75%)]	Loss: 0.652049
4339	Train Epoch: 56 [7000/8000 (88%)]	Loss: 0.548055

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4340
4341 Test set: Avg. loss: 0.4226, Accuracy: 1754/2000 (87.700%)
4342
4343 Train Epoch: 57 [0/8000 (0%)] Loss: 0.535148
4344 Train Epoch: 57 [1000/8000 (12%)] Loss: 0.521745
4345 Train Epoch: 57 [2000/8000 (25%)] Loss: 0.508463
4346 Train Epoch: 57 [3000/8000 (38%)] Loss: 0.723844
4347 Train Epoch: 57 [4000/8000 (50%)] Loss: 0.625465
4348 Train Epoch: 57 [5000/8000 (62%)] Loss: 0.586451
4349 Train Epoch: 57 [6000/8000 (75%)] Loss: 0.656692
4350 Train Epoch: 57 [7000/8000 (88%)] Loss: 0.497730
4351
4352 Test set: Avg. loss: 0.4272, Accuracy: 1746/2000 (87.300%)
4353
4354 Train Epoch: 58 [0/8000 (0%)] Loss: 0.545841
4355 Train Epoch: 58 [1000/8000 (12%)] Loss: 0.582650
4356 Train Epoch: 58 [2000/8000 (25%)] Loss: 0.545519
4357 Train Epoch: 58 [3000/8000 (38%)] Loss: 0.814706
4358 Train Epoch: 58 [4000/8000 (50%)] Loss: 0.809425
4359 Train Epoch: 58 [5000/8000 (62%)] Loss: 0.689233
4360 Train Epoch: 58 [6000/8000 (75%)] Loss: 0.640810
4361 Train Epoch: 58 [7000/8000 (88%)] Loss: 0.596599
4362
4363 Test set: Avg. loss: 0.4172, Accuracy: 1752/2000 (87.600%)
4364
4365 New best test_loss: 0.41720375418663025!
4366 Train Epoch: 59 [0/8000 (0%)] Loss: 0.511501
4367 Train Epoch: 59 [1000/8000 (12%)] Loss: 0.689962
4368 Train Epoch: 59 [2000/8000 (25%)] Loss: 0.550407
4369 Train Epoch: 59 [3000/8000 (38%)] Loss: 0.673264
4370 Train Epoch: 59 [4000/8000 (50%)] Loss: 0.600146
4371 Train Epoch: 59 [5000/8000 (62%)] Loss: 0.714789
4372 Train Epoch: 59 [6000/8000 (75%)] Loss: 0.707635
4373 Train Epoch: 59 [7000/8000 (88%)] Loss: 0.620345
4374
4375 Test set: Avg. loss: 0.4122, Accuracy: 1755/2000 (87.750%)
4376
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4377 New best test_loss: 0.41216206550598145!
4378 Train Epoch: 60 [0/8000 (0%)] Loss: 0.519657
4379 Train Epoch: 60 [1000/8000 (12%)] Loss: 0.520451
4380 Train Epoch: 60 [2000/8000 (25%)] Loss: 0.540071
4381 Train Epoch: 60 [3000/8000 (38%)] Loss: 0.745700
4382 Train Epoch: 60 [4000/8000 (50%)] Loss: 0.660190
4383 Train Epoch: 60 [5000/8000 (62%)] Loss: 0.580597
4384 Train Epoch: 60 [6000/8000 (75%)] Loss: 0.525792
4385 Train Epoch: 60 [7000/8000 (88%)] Loss: 0.618708
4386
4387 Test set: Avg. loss: 0.4089, Accuracy: 1747/2000 (87.350%)
4388
4389 New best test_loss: 0.4088836908340454!
4390 Train Epoch: 61 [0/8000 (0%)] Loss: 0.513034
4391 Train Epoch: 61 [1000/8000 (12%)] Loss: 0.623214
4392 Train Epoch: 61 [2000/8000 (25%)] Loss: 0.588627
4393 Train Epoch: 61 [3000/8000 (38%)] Loss: 0.647380
4394 Train Epoch: 61 [4000/8000 (50%)] Loss: 0.577883
4395 Train Epoch: 61 [5000/8000 (62%)] Loss: 0.570045
4396 Train Epoch: 61 [6000/8000 (75%)] Loss: 0.585489
4397 Train Epoch: 61 [7000/8000 (88%)] Loss: 0.698061
4398
4399 Test set: Avg. loss: 0.4057, Accuracy: 1749/2000 (87.450%)
4400
4401 New best test_loss: 0.40567412972450256!
4402 Train Epoch: 62 [0/8000 (0%)] Loss: 0.511079
4403 Train Epoch: 62 [1000/8000 (12%)] Loss: 0.541502
4404 Train Epoch: 62 [2000/8000 (25%)] Loss: 0.505650
4405 Train Epoch: 62 [3000/8000 (38%)] Loss: 0.719474
4406 Train Epoch: 62 [4000/8000 (50%)] Loss: 0.614525
4407 Train Epoch: 62 [5000/8000 (62%)] Loss: 0.617962
4408 Train Epoch: 62 [6000/8000 (75%)] Loss: 0.644656
4409 Train Epoch: 62 [7000/8000 (88%)] Loss: 0.569649
4410
4411 Test set: Avg. loss: 0.3930, Accuracy: 1765/2000 (88.250%)
4412
4413 New best test_loss: 0.3929636776447296!
4414 Train Epoch: 63 [0/8000 (0%)] Loss: 0.428864
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4415	Train Epoch: 63	[1000/8000 (12%)]	Loss: 0.676920
4416	Train Epoch: 63	[2000/8000 (25%)]	Loss: 0.466060
4417	Train Epoch: 63	[3000/8000 (38%)]	Loss: 0.705432
4418	Train Epoch: 63	[4000/8000 (50%)]	Loss: 0.724033
4419	Train Epoch: 63	[5000/8000 (62%)]	Loss: 0.715088
4420	Train Epoch: 63	[6000/8000 (75%)]	Loss: 0.713547
4421	Train Epoch: 63	[7000/8000 (88%)]	Loss: 0.503267
4422			
4423	Test set:	Avg. loss: 0.3993, Accuracy: 1756/2000 (87.800%)	
4424			
4425	Train Epoch: 64	[0/8000 (0%)]	Loss: 0.629204
4426	Train Epoch: 64	[1000/8000 (12%)]	Loss: 0.483806
4427	Train Epoch: 64	[2000/8000 (25%)]	Loss: 0.435306
4428	Train Epoch: 64	[3000/8000 (38%)]	Loss: 0.610760
4429	Train Epoch: 64	[4000/8000 (50%)]	Loss: 0.636510
4430	Train Epoch: 64	[5000/8000 (62%)]	Loss: 0.664417
4431	Train Epoch: 64	[6000/8000 (75%)]	Loss: 0.667318
4432	Train Epoch: 64	[7000/8000 (88%)]	Loss: 0.542379
4433			
4434	Test set:	Avg. loss: 0.3977, Accuracy: 1756/2000 (87.800%)	
4435			
4436	Train Epoch: 65	[0/8000 (0%)]	Loss: 0.511127
4437	Train Epoch: 65	[1000/8000 (12%)]	Loss: 0.509396
4438	Train Epoch: 65	[2000/8000 (25%)]	Loss: 0.534546
4439	Train Epoch: 65	[3000/8000 (38%)]	Loss: 0.706811
4440	Train Epoch: 65	[4000/8000 (50%)]	Loss: 0.556508
4441	Train Epoch: 65	[5000/8000 (62%)]	Loss: 0.504046
4442	Train Epoch: 65	[6000/8000 (75%)]	Loss: 0.597068
4443	Train Epoch: 65	[7000/8000 (88%)]	Loss: 0.497398
4444			
4445	Test set:	Avg. loss: 0.3978, Accuracy: 1764/2000 (88.200%)	
4446			
4447	Train Epoch: 66	[0/8000 (0%)]	Loss: 0.424070
4448	Train Epoch: 66	[1000/8000 (12%)]	Loss: 0.509566
4449	Train Epoch: 66	[2000/8000 (25%)]	Loss: 0.437602
4450	Train Epoch: 66	[3000/8000 (38%)]	Loss: 0.755360
4451	Train Epoch: 66	[4000/8000 (50%)]	Loss: 0.633435
4452	Train Epoch: 66	[5000/8000 (62%)]	Loss: 0.645348

4453	Train Epoch: 66 [6000/8000 (75%)]	Loss: 0.719487
4454	Train Epoch: 66 [7000/8000 (88%)]	Loss: 0.458847
4455		
4456	Test set: Avg. loss: 0.3871, Accuracy: 1760/2000 (88.000%)	
4457		
4458	New best test_loss: 0.38711845874786377!	
4459	Train Epoch: 67 [0/8000 (0%)]	Loss: 0.500467
4460	Train Epoch: 67 [1000/8000 (12%)]	Loss: 0.505483
4461	Train Epoch: 67 [2000/8000 (25%)]	Loss: 0.637888
4462	Train Epoch: 67 [3000/8000 (38%)]	Loss: 0.577292
4463	Train Epoch: 67 [4000/8000 (50%)]	Loss: 0.591690
4464	Train Epoch: 67 [5000/8000 (62%)]	Loss: 0.690535
4465	Train Epoch: 67 [6000/8000 (75%)]	Loss: 0.689935
4466	Train Epoch: 67 [7000/8000 (88%)]	Loss: 0.560447
4467		
4468	Test set: Avg. loss: 0.3796, Accuracy: 1768/2000 (88.400%)	
4469		
4470	New best test_loss: 0.3795562982559204!	
4471	Train Epoch: 68 [0/8000 (0%)]	Loss: 0.568418
4472	Train Epoch: 68 [1000/8000 (12%)]	Loss: 0.570867
4473	Train Epoch: 68 [2000/8000 (25%)]	Loss: 0.540552
4474	Train Epoch: 68 [3000/8000 (38%)]	Loss: 0.732529
4475	Train Epoch: 68 [4000/8000 (50%)]	Loss: 0.574981
4476	Train Epoch: 68 [5000/8000 (62%)]	Loss: 0.585239
4477	Train Epoch: 68 [6000/8000 (75%)]	Loss: 0.753347
4478	Train Epoch: 68 [7000/8000 (88%)]	Loss: 0.580552
4479		
4480	Test set: Avg. loss: 0.3736, Accuracy: 1776/2000 (88.800%)	
4481		
4482	New best test_loss: 0.37355998158454895!	
4483	Train Epoch: 69 [0/8000 (0%)]	Loss: 0.476858
4484	Train Epoch: 69 [1000/8000 (12%)]	Loss: 0.662805
4485	Train Epoch: 69 [2000/8000 (25%)]	Loss: 0.614068
4486	Train Epoch: 69 [3000/8000 (38%)]	Loss: 0.679625
4487	Train Epoch: 69 [4000/8000 (50%)]	Loss: 0.595749
4488	Train Epoch: 69 [5000/8000 (62%)]	Loss: 0.663727
4489	Train Epoch: 69 [6000/8000 (75%)]	Loss: 0.793056
4490	Train Epoch: 69 [7000/8000 (88%)]	Loss: 0.486400

4491
4492 Test set: Avg. loss: 0.3861, Accuracy: 1762/2000 (88.100%)
4493
4494 Train Epoch: 70 [0/8000 (0%)] Loss: 0.512215
4495 Train Epoch: 70 [1000/8000 (12%)] Loss: 0.583934
4496 Train Epoch: 70 [2000/8000 (25%)] Loss: 0.478377
4497 Train Epoch: 70 [3000/8000 (38%)] Loss: 0.680706
4498 Train Epoch: 70 [4000/8000 (50%)] Loss: 0.614233
4499 Train Epoch: 70 [5000/8000 (62%)] Loss: 0.558038
4500 Train Epoch: 70 [6000/8000 (75%)] Loss: 0.542376
4501 Train Epoch: 70 [7000/8000 (88%)] Loss: 0.590803
4502
4503 Test set: Avg. loss: 0.3716, Accuracy: 1770/2000 (88.500%)
4504
4505 New best test_loss: 0.3715999722480774!
4506 Train Epoch: 71 [0/8000 (0%)] Loss: 0.530706
4507 Train Epoch: 71 [1000/8000 (12%)] Loss: 0.505248
4508 Train Epoch: 71 [2000/8000 (25%)] Loss: 0.500944
4509 Train Epoch: 71 [3000/8000 (38%)] Loss: 0.683306
4510 Train Epoch: 71 [4000/8000 (50%)] Loss: 0.734483
4511 Train Epoch: 71 [5000/8000 (62%)] Loss: 0.625666
4512 Train Epoch: 71 [6000/8000 (75%)] Loss: 0.827750
4513 Train Epoch: 71 [7000/8000 (88%)] Loss: 0.559749
4514
4515 Test set: Avg. loss: 0.3756, Accuracy: 1776/2000 (88.800%)
4516
4517 Train Epoch: 72 [0/8000 (0%)] Loss: 0.454523
4518 Train Epoch: 72 [1000/8000 (12%)] Loss: 0.613933
4519 Train Epoch: 72 [2000/8000 (25%)] Loss: 0.617758
4520 Train Epoch: 72 [3000/8000 (38%)] Loss: 0.697153
4521 Train Epoch: 72 [4000/8000 (50%)] Loss: 0.748083
4522 Train Epoch: 72 [5000/8000 (62%)] Loss: 0.547411
4523 Train Epoch: 72 [6000/8000 (75%)] Loss: 0.487032
4524 Train Epoch: 72 [7000/8000 (88%)] Loss: 0.519948
4525
4526 Test set: Avg. loss: 0.3735, Accuracy: 1769/2000 (88.450%)
4527

4528	Train Epoch: 73	[0/8000 (0%)]	Loss: 0.475878
4529	Train Epoch: 73	[1000/8000 (12%)]	Loss: 0.515546
4530	Train Epoch: 73	[2000/8000 (25%)]	Loss: 0.487520
4531	Train Epoch: 73	[3000/8000 (38%)]	Loss: 0.650837
4532	Train Epoch: 73	[4000/8000 (50%)]	Loss: 0.814561
4533	Train Epoch: 73	[5000/8000 (62%)]	Loss: 0.670448
4534	Train Epoch: 73	[6000/8000 (75%)]	Loss: 0.515141
4535	Train Epoch: 73	[7000/8000 (88%)]	Loss: 0.583255
4536			
4537	Test set:	Avg. loss: 0.3710, Accuracy: 1776/2000 (88.800%)	
4538			
4539	New best test_loss: 0.3710435926914215!		
4540	Train Epoch: 74	[0/8000 (0%)]	Loss: 0.619394
4541	Train Epoch: 74	[1000/8000 (12%)]	Loss: 0.460307
4542	Train Epoch: 74	[2000/8000 (25%)]	Loss: 0.592554
4543	Train Epoch: 74	[3000/8000 (38%)]	Loss: 0.504426
4544	Train Epoch: 74	[4000/8000 (50%)]	Loss: 0.486068
4545	Train Epoch: 74	[5000/8000 (62%)]	Loss: 0.569009
4546	Train Epoch: 74	[6000/8000 (75%)]	Loss: 0.641696
4547	Train Epoch: 74	[7000/8000 (88%)]	Loss: 0.533698
4548			
4549	Test set:	Avg. loss: 0.3660, Accuracy: 1772/2000 (88.600%)	
4550			
4551	New best test_loss: 0.36601123213768005!		
4552	Train Epoch: 75	[0/8000 (0%)]	Loss: 0.501962
4553	Train Epoch: 75	[1000/8000 (12%)]	Loss: 0.555101
4554	Train Epoch: 75	[2000/8000 (25%)]	Loss: 0.523973
4555	Train Epoch: 75	[3000/8000 (38%)]	Loss: 0.666291
4556	Train Epoch: 75	[4000/8000 (50%)]	Loss: 0.664393
4557	Train Epoch: 75	[5000/8000 (62%)]	Loss: 0.583986
4558	Train Epoch: 75	[6000/8000 (75%)]	Loss: 0.509031
4559	Train Epoch: 75	[7000/8000 (88%)]	Loss: 0.515615
4560			
4561	Test set:	Avg. loss: 0.3664, Accuracy: 1774/2000 (88.700%)	
4562			
4563	Train Epoch: 76	[0/8000 (0%)]	Loss: 0.515576
4564	Train Epoch: 76	[1000/8000 (12%)]	Loss: 0.560238
4565	Train Epoch: 76	[2000/8000 (25%)]	Loss: 0.487908

4566	Train Epoch: 76	[3000/8000 (38%)]	Loss: 0.721846
4567	Train Epoch: 76	[4000/8000 (50%)]	Loss: 0.673833
4568	Train Epoch: 76	[5000/8000 (62%)]	Loss: 0.618599
4569	Train Epoch: 76	[6000/8000 (75%)]	Loss: 0.516186
4570	Train Epoch: 76	[7000/8000 (88%)]	Loss: 0.597846
4571			
4572	Test set:	Avg. loss: 0.3638, Accuracy: 1783/2000 (89.150%)	
4573			
4574	New best test_loss:	0.36380675435066223!	
4575	Train Epoch: 77	[0/8000 (0%)]	Loss: 0.492509
4576	Train Epoch: 77	[1000/8000 (12%)]	Loss: 0.474998
4577	Train Epoch: 77	[2000/8000 (25%)]	Loss: 0.678682
4578	Train Epoch: 77	[3000/8000 (38%)]	Loss: 0.648849
4579	Train Epoch: 77	[4000/8000 (50%)]	Loss: 0.607190
4580	Train Epoch: 77	[5000/8000 (62%)]	Loss: 0.597229
4581	Train Epoch: 77	[6000/8000 (75%)]	Loss: 0.582307
4582	Train Epoch: 77	[7000/8000 (88%)]	Loss: 0.509585
4583			
4584	Test set:	Avg. loss: 0.3631, Accuracy: 1786/2000 (89.300%)	
4585			
4586	New best test_loss:	0.3631085455417633!	
4587	Train Epoch: 78	[0/8000 (0%)]	Loss: 0.510427
4588	Train Epoch: 78	[1000/8000 (12%)]	Loss: 0.560344
4589	Train Epoch: 78	[2000/8000 (25%)]	Loss: 0.547086
4590	Train Epoch: 78	[3000/8000 (38%)]	Loss: 0.781457
4591	Train Epoch: 78	[4000/8000 (50%)]	Loss: 0.645177
4592	Train Epoch: 78	[5000/8000 (62%)]	Loss: 0.691424
4593	Train Epoch: 78	[6000/8000 (75%)]	Loss: 0.617074
4594	Train Epoch: 78	[7000/8000 (88%)]	Loss: 0.546184
4595			
4596	Test set:	Avg. loss: 0.3609, Accuracy: 1777/2000 (88.850%)	
4597			
4598	New best test_loss:	0.3609444499015808!	
4599	Train Epoch: 79	[0/8000 (0%)]	Loss: 0.472461
4600	Train Epoch: 79	[1000/8000 (12%)]	Loss: 0.503257
4601	Train Epoch: 79	[2000/8000 (25%)]	Loss: 0.514441
4602	Train Epoch: 79	[3000/8000 (38%)]	Loss: 0.647082
4603	Train Epoch: 79	[4000/8000 (50%)]	Loss: 0.688660

4604	Train Epoch: 79 [5000/8000 (62%)]	Loss: 0.616481
4605	Train Epoch: 79 [6000/8000 (75%)]	Loss: 0.598154
4606	Train Epoch: 79 [7000/8000 (88%)]	Loss: 0.583555
4607		
4608	Test set: Avg. loss: 0.3602, Accuracy: 1781/2000 (89.050%)	
4609		
4610	New best test_loss: 0.36024272441864014!	
4611	Train Epoch: 80 [0/8000 (0%)]	Loss: 0.408009
4612	Train Epoch: 80 [1000/8000 (12%)]	Loss: 0.539437
4613	Train Epoch: 80 [2000/8000 (25%)]	Loss: 0.444677
4614	Train Epoch: 80 [3000/8000 (38%)]	Loss: 0.615384
4615	Train Epoch: 80 [4000/8000 (50%)]	Loss: 0.667978
4616	Train Epoch: 80 [5000/8000 (62%)]	Loss: 0.662137
4617	Train Epoch: 80 [6000/8000 (75%)]	Loss: 0.483733
4618	Train Epoch: 80 [7000/8000 (88%)]	Loss: 0.630581
4619		
4620	Test set: Avg. loss: 0.3546, Accuracy: 1779/2000 (88.950%)	
4621		
4622	New best test_loss: 0.35457146167755127!	
4623	Train Epoch: 81 [0/8000 (0%)]	Loss: 0.440297
4624	Train Epoch: 81 [1000/8000 (12%)]	Loss: 0.486965
4625	Train Epoch: 81 [2000/8000 (25%)]	Loss: 0.475593
4626	Train Epoch: 81 [3000/8000 (38%)]	Loss: 0.609668
4627	Train Epoch: 81 [4000/8000 (50%)]	Loss: 0.708675
4628	Train Epoch: 81 [5000/8000 (62%)]	Loss: 0.634676
4629	Train Epoch: 81 [6000/8000 (75%)]	Loss: 0.567617
4630	Train Epoch: 81 [7000/8000 (88%)]	Loss: 0.525003
4631		
4632	Test set: Avg. loss: 0.3547, Accuracy: 1786/2000 (89.300%)	
4633		
4634	Train Epoch: 82 [0/8000 (0%)]	Loss: 0.439315
4635	Train Epoch: 82 [1000/8000 (12%)]	Loss: 0.530029
4636	Train Epoch: 82 [2000/8000 (25%)]	Loss: 0.558017
4637	Train Epoch: 82 [3000/8000 (38%)]	Loss: 0.636126
4638	Train Epoch: 82 [4000/8000 (50%)]	Loss: 0.718958
4639	Train Epoch: 82 [5000/8000 (62%)]	Loss: 0.586402
4640	Train Epoch: 82 [6000/8000 (75%)]	Loss: 0.496610
4641	Train Epoch: 82 [7000/8000 (88%)]	Loss: 0.534697

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4642
4643 Test set: Avg. loss: 0.3518, Accuracy: 1787/2000 (
    89.350%)
4644
4645 New best test_loss: 0.35184478759765625!
4646 Train Epoch: 83 [0/8000 (0%)] Loss: 0.427307
4647 Train Epoch: 83 [1000/8000 (12%)] Loss: 0.611283
4648 Train Epoch: 83 [2000/8000 (25%)] Loss: 0.594257
4649 Train Epoch: 83 [3000/8000 (38%)] Loss: 0.539312
4650 Train Epoch: 83 [4000/8000 (50%)] Loss: 0.576862
4651 Train Epoch: 83 [5000/8000 (62%)] Loss: 0.674866
4652 Train Epoch: 83 [6000/8000 (75%)] Loss: 0.573754
4653 Train Epoch: 83 [7000/8000 (88%)] Loss: 0.524223
4654
4655 Test set: Avg. loss: 0.3502, Accuracy: 1786/2000 (
    89.300%)
4656
4657 New best test_loss: 0.3501608967781067!
4658 Train Epoch: 84 [0/8000 (0%)] Loss: 0.462304
4659 Train Epoch: 84 [1000/8000 (12%)] Loss: 0.573993
4660 Train Epoch: 84 [2000/8000 (25%)] Loss: 0.412504
4661 Train Epoch: 84 [3000/8000 (38%)] Loss: 0.553956
4662 Train Epoch: 84 [4000/8000 (50%)] Loss: 0.565867
4663 Train Epoch: 84 [5000/8000 (62%)] Loss: 0.542415
4664 Train Epoch: 84 [6000/8000 (75%)] Loss: 0.528959
4665 Train Epoch: 84 [7000/8000 (88%)] Loss: 0.532167
4666
4667 Test set: Avg. loss: 0.3496, Accuracy: 1784/2000 (
    89.200%)
4668
4669 New best test_loss: 0.34955528378486633!
4670 Train Epoch: 85 [0/8000 (0%)] Loss: 0.469865
4671 Train Epoch: 85 [1000/8000 (12%)] Loss: 0.506624
4672 Train Epoch: 85 [2000/8000 (25%)] Loss: 0.401017
4673 Train Epoch: 85 [3000/8000 (38%)] Loss: 0.562022
4674 Train Epoch: 85 [4000/8000 (50%)] Loss: 0.673768
4675 Train Epoch: 85 [5000/8000 (62%)] Loss: 0.569382
4676 Train Epoch: 85 [6000/8000 (75%)] Loss: 0.632113
4677 Train Epoch: 85 [7000/8000 (88%)] Loss: 0.521992
4678
4679 Test set: Avg. loss: 0.3533, Accuracy: 1790/2000 (
```

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4679 89.500%)  
4680  
4681 Train Epoch: 86 [0/8000 (0%)] Loss: 0.481150  
4682 Train Epoch: 86 [1000/8000 (12%)] Loss: 0.591037  
4683 Train Epoch: 86 [2000/8000 (25%)] Loss: 0.489458  
4684 Train Epoch: 86 [3000/8000 (38%)] Loss: 0.573374  
4685 Train Epoch: 86 [4000/8000 (50%)] Loss: 0.696417  
4686 Train Epoch: 86 [5000/8000 (62%)] Loss: 0.716280  
4687 Train Epoch: 86 [6000/8000 (75%)] Loss: 0.630757  
4688 Train Epoch: 86 [7000/8000 (88%)] Loss: 0.546504  
4689  
4690 Test set: Avg. loss: 0.3467, Accuracy: 1786/2000 (89.300%)  
4691  
4692 New best test_loss: 0.3467331528663635!  
4693 Train Epoch: 87 [0/8000 (0%)] Loss: 0.537582  
4694 Train Epoch: 87 [1000/8000 (12%)] Loss: 0.500259  
4695 Train Epoch: 87 [2000/8000 (25%)] Loss: 0.531501  
4696 Train Epoch: 87 [3000/8000 (38%)] Loss: 0.583474  
4697 Train Epoch: 87 [4000/8000 (50%)] Loss: 0.644253  
4698 Train Epoch: 87 [5000/8000 (62%)] Loss: 0.591844  
4699 Train Epoch: 87 [6000/8000 (75%)] Loss: 0.504811  
4700 Train Epoch: 87 [7000/8000 (88%)] Loss: 0.562544  
4701  
4702 Test set: Avg. loss: 0.3422, Accuracy: 1791/2000 (89.550%)  
4703  
4704 New best test_loss: 0.34215161204338074!  
4705 Train Epoch: 88 [0/8000 (0%)] Loss: 0.396163  
4706 Train Epoch: 88 [1000/8000 (12%)] Loss: 0.485864  
4707 Train Epoch: 88 [2000/8000 (25%)] Loss: 0.507739  
4708 Train Epoch: 88 [3000/8000 (38%)] Loss: 0.650683  
4709 Train Epoch: 88 [4000/8000 (50%)] Loss: 0.571129  
4710 Train Epoch: 88 [5000/8000 (62%)] Loss: 0.605453  
4711 Train Epoch: 88 [6000/8000 (75%)] Loss: 0.557229  
4712 Train Epoch: 88 [7000/8000 (88%)] Loss: 0.571219  
4713  
4714 Test set: Avg. loss: 0.3372, Accuracy: 1789/2000 (89.450%)  
4715  
4716 New best test_loss: 0.3371998965740204!
```

4717	Train Epoch: 89	[0/8000 (0%)]	Loss: 0.378254
4718	Train Epoch: 89	[1000/8000 (12%)]	Loss: 0.481580
4719	Train Epoch: 89	[2000/8000 (25%)]	Loss: 0.455959
4720	Train Epoch: 89	[3000/8000 (38%)]	Loss: 0.649765
4721	Train Epoch: 89	[4000/8000 (50%)]	Loss: 0.587697
4722	Train Epoch: 89	[5000/8000 (62%)]	Loss: 0.680790
4723	Train Epoch: 89	[6000/8000 (75%)]	Loss: 0.585634
4724	Train Epoch: 89	[7000/8000 (88%)]	Loss: 0.494839
4725			
4726	Test set:	Avg. loss: 0.3352, Accuracy: 1797/2000 (89.850%)	
4727			
4728	New best test_loss: 0.3352462649345398!		
4729	Train Epoch: 90	[0/8000 (0%)]	Loss: 0.421385
4730	Train Epoch: 90	[1000/8000 (12%)]	Loss: 0.602964
4731	Train Epoch: 90	[2000/8000 (25%)]	Loss: 0.466576
4732	Train Epoch: 90	[3000/8000 (38%)]	Loss: 0.539485
4733	Train Epoch: 90	[4000/8000 (50%)]	Loss: 0.692516
4734	Train Epoch: 90	[5000/8000 (62%)]	Loss: 0.502866
4735	Train Epoch: 90	[6000/8000 (75%)]	Loss: 0.575101
4736	Train Epoch: 90	[7000/8000 (88%)]	Loss: 0.496061
4737			
4738	Test set:	Avg. loss: 0.3366, Accuracy: 1792/2000 (89.600%)	
4739			
4740	Train Epoch: 91	[0/8000 (0%)]	Loss: 0.595130
4741	Train Epoch: 91	[1000/8000 (12%)]	Loss: 0.519143
4742	Train Epoch: 91	[2000/8000 (25%)]	Loss: 0.443608
4743	Train Epoch: 91	[3000/8000 (38%)]	Loss: 0.517587
4744	Train Epoch: 91	[4000/8000 (50%)]	Loss: 0.626943
4745	Train Epoch: 91	[5000/8000 (62%)]	Loss: 0.527372
4746	Train Epoch: 91	[6000/8000 (75%)]	Loss: 0.555432
4747	Train Epoch: 91	[7000/8000 (88%)]	Loss: 0.475667
4748			
4749	Test set:	Avg. loss: 0.3331, Accuracy: 1802/2000 (90.100%)	
4750			
4751	New best test_loss: 0.3330998718738556!		
4752	Train Epoch: 92	[0/8000 (0%)]	Loss: 0.639136
4753	Train Epoch: 92	[1000/8000 (12%)]	Loss: 0.489283
4754	Train Epoch: 92	[2000/8000 (25%)]	Loss: 0.488924

4755	Train Epoch: 92	[3000/8000 (38%)]	Loss: 0.546241
4756	Train Epoch: 92	[4000/8000 (50%)]	Loss: 0.600957
4757	Train Epoch: 92	[5000/8000 (62%)]	Loss: 0.662690
4758	Train Epoch: 92	[6000/8000 (75%)]	Loss: 0.447987
4759	Train Epoch: 92	[7000/8000 (88%)]	Loss: 0.503364
4760			
4761	Test set:	Avg. loss: 0.3427, Accuracy: 1785/2000 (89.250%)	
4762			
4763	Train Epoch: 93	[0/8000 (0%)]	Loss: 0.416001
4764	Train Epoch: 93	[1000/8000 (12%)]	Loss: 0.431180
4765	Train Epoch: 93	[2000/8000 (25%)]	Loss: 0.451650
4766	Train Epoch: 93	[3000/8000 (38%)]	Loss: 0.594677
4767	Train Epoch: 93	[4000/8000 (50%)]	Loss: 0.581903
4768	Train Epoch: 93	[5000/8000 (62%)]	Loss: 0.497899
4769	Train Epoch: 93	[6000/8000 (75%)]	Loss: 0.547045
4770	Train Epoch: 93	[7000/8000 (88%)]	Loss: 0.571439
4771			
4772	Test set:	Avg. loss: 0.3291, Accuracy: 1799/2000 (89.950%)	
4773			
4774	New best test_loss: 0.32914209365844727!		
4775	Train Epoch: 94	[0/8000 (0%)]	Loss: 0.463528
4776	Train Epoch: 94	[1000/8000 (12%)]	Loss: 0.507330
4777	Train Epoch: 94	[2000/8000 (25%)]	Loss: 0.414128
4778	Train Epoch: 94	[3000/8000 (38%)]	Loss: 0.651730
4779	Train Epoch: 94	[4000/8000 (50%)]	Loss: 0.638321
4780	Train Epoch: 94	[5000/8000 (62%)]	Loss: 0.513331
4781	Train Epoch: 94	[6000/8000 (75%)]	Loss: 0.538770
4782	Train Epoch: 94	[7000/8000 (88%)]	Loss: 0.456432
4783			
4784	Test set:	Avg. loss: 0.3323, Accuracy: 1801/2000 (90.050%)	
4785			
4786	Train Epoch: 95	[0/8000 (0%)]	Loss: 0.404295
4787	Train Epoch: 95	[1000/8000 (12%)]	Loss: 0.557984
4788	Train Epoch: 95	[2000/8000 (25%)]	Loss: 0.416826
4789	Train Epoch: 95	[3000/8000 (38%)]	Loss: 0.557243
4790	Train Epoch: 95	[4000/8000 (50%)]	Loss: 0.624716
4791	Train Epoch: 95	[5000/8000 (62%)]	Loss: 0.429171
4792	Train Epoch: 95	[6000/8000 (75%)]	Loss: 0.535453

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4793 Train Epoch: 95 [7000/8000 (88%)] Loss: 0.381348
4794
4795 Test set: Avg. loss: 0.3306, Accuracy: 1793/2000 (
89.650%)
4796
4797 Train Epoch: 96 [0/8000 (0%)] Loss: 0.394627
4798 Train Epoch: 96 [1000/8000 (12%)] Loss: 0.584450
4799 Train Epoch: 96 [2000/8000 (25%)] Loss: 0.416652
4800 Train Epoch: 96 [3000/8000 (38%)] Loss: 0.584710
4801 Train Epoch: 96 [4000/8000 (50%)] Loss: 0.686867
4802 Train Epoch: 96 [5000/8000 (62%)] Loss: 0.578899
4803 Train Epoch: 96 [6000/8000 (75%)] Loss: 0.613622
4804 Train Epoch: 96 [7000/8000 (88%)] Loss: 0.559281
4805
4806 Test set: Avg. loss: 0.3207, Accuracy: 1807/2000 (
90.350%)
4807
4808 New best test_loss: 0.3207367956638336!
4809 Train Epoch: 97 [0/8000 (0%)] Loss: 0.446098
4810 Train Epoch: 97 [1000/8000 (12%)] Loss: 0.532425
4811 Train Epoch: 97 [2000/8000 (25%)] Loss: 0.450967
4812 Train Epoch: 97 [3000/8000 (38%)] Loss: 0.469992
4813 Train Epoch: 97 [4000/8000 (50%)] Loss: 0.528750
4814 Train Epoch: 97 [5000/8000 (62%)] Loss: 0.583724
4815 Train Epoch: 97 [6000/8000 (75%)] Loss: 0.528107
4816 Train Epoch: 97 [7000/8000 (88%)] Loss: 0.506181
4817
4818 Test set: Avg. loss: 0.3273, Accuracy: 1793/2000 (
89.650%)
4819
4820 Train Epoch: 98 [0/8000 (0%)] Loss: 0.489328
4821 Train Epoch: 98 [1000/8000 (12%)] Loss: 0.406156
4822 Train Epoch: 98 [2000/8000 (25%)] Loss: 0.485159
4823 Train Epoch: 98 [3000/8000 (38%)] Loss: 0.581366
4824 Train Epoch: 98 [4000/8000 (50%)] Loss: 0.639107
4825 Train Epoch: 98 [5000/8000 (62%)] Loss: 0.544519
4826 Train Epoch: 98 [6000/8000 (75%)] Loss: 0.581944
4827 Train Epoch: 98 [7000/8000 (88%)] Loss: 0.442761
4828
4829 Test set: Avg. loss: 0.3234, Accuracy: 1806/2000 (
90.300%)
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4830
4831 Train Epoch: 99 [0/8000 (0%)] Loss: 0.507641
4832 Train Epoch: 99 [1000/8000 (12%)] Loss: 0.545788
4833 Train Epoch: 99 [2000/8000 (25%)] Loss: 0.500036
4834 Train Epoch: 99 [3000/8000 (38%)] Loss: 0.543677
4835 Train Epoch: 99 [4000/8000 (50%)] Loss: 0.607734
4836 Train Epoch: 99 [5000/8000 (62%)] Loss: 0.585740
4837 Train Epoch: 99 [6000/8000 (75%)] Loss: 0.509362
4838 Train Epoch: 99 [7000/8000 (88%)] Loss: 0.609807
4839
4840 Test set: Avg. loss: 0.3315, Accuracy: 1798/2000 (89.900%)
4841
4842 Train Epoch: 100 [0/8000 (0%)] Loss: 0.399533
4843 Train Epoch: 100 [1000/8000 (12%)] Loss: 0.405299
4844 Train Epoch: 100 [2000/8000 (25%)] Loss: 0.556153
4845 Train Epoch: 100 [3000/8000 (38%)] Loss: 0.506668
4846 Train Epoch: 100 [4000/8000 (50%)] Loss: 0.665336
4847 Train Epoch: 100 [5000/8000 (62%)] Loss: 0.615580
4848 Train Epoch: 100 [6000/8000 (75%)] Loss: 0.573378
4849 Train Epoch: 100 [7000/8000 (88%)] Loss: 0.591585
4850
4851 Test set: Avg. loss: 0.3240, Accuracy: 1801/2000 (90.050%)
4852
4853 Train Epoch: 1 [0/8000 (0%)] Loss: 2.315700
4854 Train Epoch: 1 [1000/8000 (12%)] Loss: 2.310974
4855 Train Epoch: 1 [2000/8000 (25%)] Loss: 2.305293
4856 Train Epoch: 1 [3000/8000 (38%)] Loss: 2.294904
4857 Train Epoch: 1 [4000/8000 (50%)] Loss: 2.301000
4858 Train Epoch: 1 [5000/8000 (62%)] Loss: 2.293828
4859 Train Epoch: 1 [6000/8000 (75%)] Loss: 2.313201
4860 Train Epoch: 1 [7000/8000 (88%)] Loss: 2.314812
4861
4862 Test set: Avg. loss: 2.3040, Accuracy: 204/2000 (10.200%)
4863
4864 New best test_loss: 2.3039846420288086!
4865 Train Epoch: 2 [0/8000 (0%)] Loss: 2.305648
4866 Train Epoch: 2 [1000/8000 (12%)] Loss: 2.313502
4867 Train Epoch: 2 [2000/8000 (25%)] Loss: 2.304014
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4868	Train Epoch: 2	[3000/8000 (38%)]	Loss: 2.294806
4869	Train Epoch: 2	[4000/8000 (50%)]	Loss: 2.299080
4870	Train Epoch: 2	[5000/8000 (62%)]	Loss: 2.289237
4871	Train Epoch: 2	[6000/8000 (75%)]	Loss: 2.308296
4872	Train Epoch: 2	[7000/8000 (88%)]	Loss: 2.311673
4873			
4874	Test set:	Avg. loss: 2.3025, Accuracy: 216/2000 (10.800%)	
4875			
4876	New best test_loss:	2.3025457859039307!	
4877	Train Epoch: 3	[0/8000 (0%)]	Loss: 2.302632
4878	Train Epoch: 3	[1000/8000 (12%)]	Loss: 2.302947
4879	Train Epoch: 3	[2000/8000 (25%)]	Loss: 2.302931
4880	Train Epoch: 3	[3000/8000 (38%)]	Loss: 2.298899
4881	Train Epoch: 3	[4000/8000 (50%)]	Loss: 2.295264
4882	Train Epoch: 3	[5000/8000 (62%)]	Loss: 2.288946
4883	Train Epoch: 3	[6000/8000 (75%)]	Loss: 2.309511
4884	Train Epoch: 3	[7000/8000 (88%)]	Loss: 2.305528
4885			
4886	Test set:	Avg. loss: 2.3013, Accuracy: 216/2000 (10.800%)	
4887			
4888	New best test_loss:	2.301265239715576!	
4889	Train Epoch: 4	[0/8000 (0%)]	Loss: 2.301536
4890	Train Epoch: 4	[1000/8000 (12%)]	Loss: 2.298495
4891	Train Epoch: 4	[2000/8000 (25%)]	Loss: 2.301108
4892	Train Epoch: 4	[3000/8000 (38%)]	Loss: 2.298256
4893	Train Epoch: 4	[4000/8000 (50%)]	Loss: 2.296444
4894	Train Epoch: 4	[5000/8000 (62%)]	Loss: 2.286637
4895	Train Epoch: 4	[6000/8000 (75%)]	Loss: 2.310668
4896	Train Epoch: 4	[7000/8000 (88%)]	Loss: 2.306306
4897			
4898	Test set:	Avg. loss: 2.3002, Accuracy: 216/2000 (10.800%)	
4899			
4900	New best test_loss:	2.300161600112915!	
4901	Train Epoch: 5	[0/8000 (0%)]	Loss: 2.300625
4902	Train Epoch: 5	[1000/8000 (12%)]	Loss: 2.305512
4903	Train Epoch: 5	[2000/8000 (25%)]	Loss: 2.299321
4904	Train Epoch: 5	[3000/8000 (38%)]	Loss: 2.296529
4905	Train Epoch: 5	[4000/8000 (50%)]	Loss: 2.297287

4906	Train Epoch: 5 [5000/8000 (62%)]	Loss: 2.294055
4907	Train Epoch: 5 [6000/8000 (75%)]	Loss: 2.312164
4908	Train Epoch: 5 [7000/8000 (88%)]	Loss: 2.305470
4909		
4910	Test set: Avg. loss: 2.2995, Accuracy: 216/2000 (10.800%)	
4911		
4912	New best test_loss: 2.299452543258667!	
4913	Train Epoch: 6 [0/8000 (0%)]	Loss: 2.296285
4914	Train Epoch: 6 [1000/8000 (12%)]	Loss: 2.301826
4915	Train Epoch: 6 [2000/8000 (25%)]	Loss: 2.297331
4916	Train Epoch: 6 [3000/8000 (38%)]	Loss: 2.295414
4917	Train Epoch: 6 [4000/8000 (50%)]	Loss: 2.300043
4918	Train Epoch: 6 [5000/8000 (62%)]	Loss: 2.289702
4919	Train Epoch: 6 [6000/8000 (75%)]	Loss: 2.309188
4920	Train Epoch: 6 [7000/8000 (88%)]	Loss: 2.305468
4921		
4922	Test set: Avg. loss: 2.2986, Accuracy: 216/2000 (10.800%)	
4923		
4924	New best test_loss: 2.2985942363739014!	
4925	Train Epoch: 7 [0/8000 (0%)]	Loss: 2.298352
4926	Train Epoch: 7 [1000/8000 (12%)]	Loss: 2.298549
4927	Train Epoch: 7 [2000/8000 (25%)]	Loss: 2.298218
4928	Train Epoch: 7 [3000/8000 (38%)]	Loss: 2.294539
4929	Train Epoch: 7 [4000/8000 (50%)]	Loss: 2.292243
4930	Train Epoch: 7 [5000/8000 (62%)]	Loss: 2.288735
4931	Train Epoch: 7 [6000/8000 (75%)]	Loss: 2.314352
4932	Train Epoch: 7 [7000/8000 (88%)]	Loss: 2.308166
4933		
4934	Test set: Avg. loss: 2.2978, Accuracy: 216/2000 (10.800%)	
4935		
4936	New best test_loss: 2.2978241443634033!	
4937	Train Epoch: 8 [0/8000 (0%)]	Loss: 2.299258
4938	Train Epoch: 8 [1000/8000 (12%)]	Loss: 2.301965
4939	Train Epoch: 8 [2000/8000 (25%)]	Loss: 2.297701
4940	Train Epoch: 8 [3000/8000 (38%)]	Loss: 2.300453
4941	Train Epoch: 8 [4000/8000 (50%)]	Loss: 2.293742
4942	Train Epoch: 8 [5000/8000 (62%)]	Loss: 2.290587
4943	Train Epoch: 8 [6000/8000 (75%)]	Loss: 2.316282

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4944 Train Epoch: 8 [7000/8000 (88%)] Loss: 2.303824
4945
4946 Test set: Avg. loss: 2.2970, Accuracy: 216/2000 (10
.800%)
4947
4948 New best test_loss: 2.2970263957977295!
4949 Train Epoch: 9 [0/8000 (0%)] Loss: 2.296784
4950 Train Epoch: 9 [1000/8000 (12%)] Loss: 2.292416
4951 Train Epoch: 9 [2000/8000 (25%)] Loss: 2.294404
4952 Train Epoch: 9 [3000/8000 (38%)] Loss: 2.288456
4953 Train Epoch: 9 [4000/8000 (50%)] Loss: 2.291234
4954 Train Epoch: 9 [5000/8000 (62%)] Loss: 2.287428
4955 Train Epoch: 9 [6000/8000 (75%)] Loss: 2.312595
4956 Train Epoch: 9 [7000/8000 (88%)] Loss: 2.295772
4957
4958 Test set: Avg. loss: 2.2959, Accuracy: 216/2000 (10
.800%)
4959
4960 New best test_loss: 2.2959020137786865!
4961 Train Epoch: 10 [0/8000 (0%)] Loss: 2.290575
4962 Train Epoch: 10 [1000/8000 (12%)] Loss: 2.296643
4963 Train Epoch: 10 [2000/8000 (25%)] Loss: 2.291348
4964 Train Epoch: 10 [3000/8000 (38%)] Loss: 2.296063
4965 Train Epoch: 10 [4000/8000 (50%)] Loss: 2.296042
4966 Train Epoch: 10 [5000/8000 (62%)] Loss: 2.289040
4967 Train Epoch: 10 [6000/8000 (75%)] Loss: 2.309936
4968 Train Epoch: 10 [7000/8000 (88%)] Loss: 2.296173
4969
4970 Test set: Avg. loss: 2.2948, Accuracy: 216/2000 (10
.800%)
4971
4972 New best test_loss: 2.2947680950164795!
4973 Train Epoch: 11 [0/8000 (0%)] Loss: 2.292785
4974 Train Epoch: 11 [1000/8000 (12%)] Loss: 2.289318
4975 Train Epoch: 11 [2000/8000 (25%)] Loss: 2.291995
4976 Train Epoch: 11 [3000/8000 (38%)] Loss: 2.288592
4977 Train Epoch: 11 [4000/8000 (50%)] Loss: 2.295749
4978 Train Epoch: 11 [5000/8000 (62%)] Loss: 2.286634
4979 Train Epoch: 11 [6000/8000 (75%)] Loss: 2.305367
4980 Train Epoch: 11 [7000/8000 (88%)] Loss: 2.294634
4981
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4982 Test set: Avg. loss: 2.2932, Accuracy: 216/2000 (10
.800%)
4983
4984 New best test_loss: 2.2931506633758545!
4985 Train Epoch: 12 [0/8000 (0%)] Loss: 2.289052
4986 Train Epoch: 12 [1000/8000 (12%)] Loss: 2.291438
4987 Train Epoch: 12 [2000/8000 (25%)] Loss: 2.286417
4988 Train Epoch: 12 [3000/8000 (38%)] Loss: 2.286193
4989 Train Epoch: 12 [4000/8000 (50%)] Loss: 2.290027
4990 Train Epoch: 12 [5000/8000 (62%)] Loss: 2.288510
4991 Train Epoch: 12 [6000/8000 (75%)] Loss: 2.300671
4992 Train Epoch: 12 [7000/8000 (88%)] Loss: 2.296949
4993
4994 Test set: Avg. loss: 2.2912, Accuracy: 217/2000 (10
.850%)
4995
4996 New best test_loss: 2.291231870651245!
4997 Train Epoch: 13 [0/8000 (0%)] Loss: 2.289014
4998 Train Epoch: 13 [1000/8000 (12%)] Loss: 2.282920
4999 Train Epoch: 13 [2000/8000 (25%)] Loss: 2.283917
5000 Train Epoch: 13 [3000/8000 (38%)] Loss: 2.288013
5001 Train Epoch: 13 [4000/8000 (50%)] Loss: 2.282782
5002 Train Epoch: 13 [5000/8000 (62%)] Loss: 2.288421
5003 Train Epoch: 13 [6000/8000 (75%)] Loss: 2.305432
5004 Train Epoch: 13 [7000/8000 (88%)] Loss: 2.288456
5005
5006 Test set: Avg. loss: 2.2888, Accuracy: 222/2000 (11
.100%)
5007
5008 New best test_loss: 2.288835287094116!
5009 Train Epoch: 14 [0/8000 (0%)] Loss: 2.286807
5010 Train Epoch: 14 [1000/8000 (12%)] Loss: 2.285287
5011 Train Epoch: 14 [2000/8000 (25%)] Loss: 2.278582
5012 Train Epoch: 14 [3000/8000 (38%)] Loss: 2.285054
5013 Train Epoch: 14 [4000/8000 (50%)] Loss: 2.282452
5014 Train Epoch: 14 [5000/8000 (62%)] Loss: 2.280796
5015 Train Epoch: 14 [6000/8000 (75%)] Loss: 2.303302
5016 Train Epoch: 14 [7000/8000 (88%)] Loss: 2.291310
5017
5018 Test set: Avg. loss: 2.2859, Accuracy: 253/2000 (12
.650%)
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5019
5020 New best test_loss: 2.285896062850952!
5021 Train Epoch: 15 [0/8000 (0%)] Loss: 2.281643
5022 Train Epoch: 15 [1000/8000 (12%)] Loss: 2.287160
5023 Train Epoch: 15 [2000/8000 (25%)] Loss: 2.282992
5024 Train Epoch: 15 [3000/8000 (38%)] Loss: 2.283681
5025 Train Epoch: 15 [4000/8000 (50%)] Loss: 2.279872
5026 Train Epoch: 15 [5000/8000 (62%)] Loss: 2.286801
5027 Train Epoch: 15 [6000/8000 (75%)] Loss: 2.294420
5028 Train Epoch: 15 [7000/8000 (88%)] Loss: 2.294257
5029
5030 Test set: Avg. loss: 2.2819, Accuracy: 306/2000 (15.300%)
5031
5032 New best test_loss: 2.2818641662597656!
5033 Train Epoch: 16 [0/8000 (0%)] Loss: 2.273440
5034 Train Epoch: 16 [1000/8000 (12%)] Loss: 2.278150
5035 Train Epoch: 16 [2000/8000 (25%)] Loss: 2.266644
5036 Train Epoch: 16 [3000/8000 (38%)] Loss: 2.287009
5037 Train Epoch: 16 [4000/8000 (50%)] Loss: 2.267293
5038 Train Epoch: 16 [5000/8000 (62%)] Loss: 2.267129
5039 Train Epoch: 16 [6000/8000 (75%)] Loss: 2.303909
5040 Train Epoch: 16 [7000/8000 (88%)] Loss: 2.282704
5041
5042 Test set: Avg. loss: 2.2751, Accuracy: 388/2000 (19.400%)
5043
5044 New best test_loss: 2.275078058242798!
5045 Train Epoch: 17 [0/8000 (0%)] Loss: 2.279293
5046 Train Epoch: 17 [1000/8000 (12%)] Loss: 2.266648
5047 Train Epoch: 17 [2000/8000 (25%)] Loss: 2.270271
5048 Train Epoch: 17 [3000/8000 (38%)] Loss: 2.264607
5049 Train Epoch: 17 [4000/8000 (50%)] Loss: 2.272516
5050 Train Epoch: 17 [5000/8000 (62%)] Loss: 2.261651
5051 Train Epoch: 17 [6000/8000 (75%)] Loss: 2.284687
5052 Train Epoch: 17 [7000/8000 (88%)] Loss: 2.260583
5053
5054 Test set: Avg. loss: 2.2649, Accuracy: 410/2000 (20.500%)
5055
5056 New best test_loss: 2.264901876449585!

5057	Train Epoch: 18	[0/8000 (0%)]	Loss: 2.274935
5058	Train Epoch: 18	[1000/8000 (12%)]	Loss: 2.267666
5059	Train Epoch: 18	[2000/8000 (25%)]	Loss: 2.257311
5060	Train Epoch: 18	[3000/8000 (38%)]	Loss: 2.260552
5061	Train Epoch: 18	[4000/8000 (50%)]	Loss: 2.255715
5062	Train Epoch: 18	[5000/8000 (62%)]	Loss: 2.267727
5063	Train Epoch: 18	[6000/8000 (75%)]	Loss: 2.275019
5064	Train Epoch: 18	[7000/8000 (88%)]	Loss: 2.268018
5065			
5066	Test set:	Avg. loss: 2.2493, Accuracy: 474/2000 (23.700%)	
5067			
5068	New best test_loss:	2.2492682933807373!	
5069	Train Epoch: 19	[0/8000 (0%)]	Loss: 2.249160
5070	Train Epoch: 19	[1000/8000 (12%)]	Loss: 2.252795
5071	Train Epoch: 19	[2000/8000 (25%)]	Loss: 2.229396
5072	Train Epoch: 19	[3000/8000 (38%)]	Loss: 2.239769
5073	Train Epoch: 19	[4000/8000 (50%)]	Loss: 2.250775
5074	Train Epoch: 19	[5000/8000 (62%)]	Loss: 2.230027
5075	Train Epoch: 19	[6000/8000 (75%)]	Loss: 2.258315
5076	Train Epoch: 19	[7000/8000 (88%)]	Loss: 2.246929
5077			
5078	Test set:	Avg. loss: 2.2243, Accuracy: 535/2000 (26.750%)	
5079			
5080	New best test_loss:	2.2243006229400635!	
5081	Train Epoch: 20	[0/8000 (0%)]	Loss: 2.216069
5082	Train Epoch: 20	[1000/8000 (12%)]	Loss: 2.221351
5083	Train Epoch: 20	[2000/8000 (25%)]	Loss: 2.200590
5084	Train Epoch: 20	[3000/8000 (38%)]	Loss: 2.226569
5085	Train Epoch: 20	[4000/8000 (50%)]	Loss: 2.229382
5086	Train Epoch: 20	[5000/8000 (62%)]	Loss: 2.212011
5087	Train Epoch: 20	[6000/8000 (75%)]	Loss: 2.233327
5088	Train Epoch: 20	[7000/8000 (88%)]	Loss: 2.211948
5089			
5090	Test set:	Avg. loss: 2.1778, Accuracy: 569/2000 (28.450%)	
5091			
5092	New best test_loss:	2.1777586936950684!	
5093	Train Epoch: 21	[0/8000 (0%)]	Loss: 2.172617
5094	Train Epoch: 21	[1000/8000 (12%)]	Loss: 2.195642

5095	Train Epoch: 21	[2000/8000 (25%)]	Loss: 2.161077
5096	Train Epoch: 21	[3000/8000 (38%)]	Loss: 2.206940
5097	Train Epoch: 21	[4000/8000 (50%)]	Loss: 2.148769
5098	Train Epoch: 21	[5000/8000 (62%)]	Loss: 2.144462
5099	Train Epoch: 21	[6000/8000 (75%)]	Loss: 2.185291
5100	Train Epoch: 21	[7000/8000 (88%)]	Loss: 2.180464
5101			
5102	Test set:	Avg. loss: 2.0992, Accuracy: 684/2000 (34.200%)	
5103			
5104	New best test_loss:	2.099208354949951!	
5105	Train Epoch: 22	[0/8000 (0%)]	Loss: 2.096709
5106	Train Epoch: 22	[1000/8000 (12%)]	Loss: 2.139748
5107	Train Epoch: 22	[2000/8000 (25%)]	Loss: 2.101255
5108	Train Epoch: 22	[3000/8000 (38%)]	Loss: 2.066514
5109	Train Epoch: 22	[4000/8000 (50%)]	Loss: 2.104707
5110	Train Epoch: 22	[5000/8000 (62%)]	Loss: 2.105293
5111	Train Epoch: 22	[6000/8000 (75%)]	Loss: 2.122558
5112	Train Epoch: 22	[7000/8000 (88%)]	Loss: 2.041207
5113			
5114	Test set:	Avg. loss: 1.9662, Accuracy: 770/2000 (38.500%)	
5115			
5116	New best test_loss:	1.9662396907806396!	
5117	Train Epoch: 23	[0/8000 (0%)]	Loss: 1.972700
5118	Train Epoch: 23	[1000/8000 (12%)]	Loss: 1.978162
5119	Train Epoch: 23	[2000/8000 (25%)]	Loss: 1.863175
5120	Train Epoch: 23	[3000/8000 (38%)]	Loss: 1.979506
5121	Train Epoch: 23	[4000/8000 (50%)]	Loss: 1.985890
5122	Train Epoch: 23	[5000/8000 (62%)]	Loss: 1.926012
5123	Train Epoch: 23	[6000/8000 (75%)]	Loss: 1.951499
5124	Train Epoch: 23	[7000/8000 (88%)]	Loss: 1.901240
5125			
5126	Test set:	Avg. loss: 1.8026, Accuracy: 984/2000 (49.200%)	
5127			
5128	New best test_loss:	1.8025784492492676!	
5129	Train Epoch: 24	[0/8000 (0%)]	Loss: 1.832303
5130	Train Epoch: 24	[1000/8000 (12%)]	Loss: 1.890983
5131	Train Epoch: 24	[2000/8000 (25%)]	Loss: 1.809683
5132	Train Epoch: 24	[3000/8000 (38%)]	Loss: 1.839070

5133	Train Epoch: 24 [4000/8000 (50%)]	Loss: 1.850780
5134	Train Epoch: 24 [5000/8000 (62%)]	Loss: 1.894020
5135	Train Epoch: 24 [6000/8000 (75%)]	Loss: 1.880718
5136	Train Epoch: 24 [7000/8000 (88%)]	Loss: 1.798111
5137		
5138	Test set: Avg. loss: 1.6421, Accuracy: 1043/2000 (52.150%)	
5139		
5140	New best test_loss: 1.6421258449554443!	
5141	Train Epoch: 25 [0/8000 (0%)]	Loss: 1.716669
5142	Train Epoch: 25 [1000/8000 (12%)]	Loss: 1.688752
5143	Train Epoch: 25 [2000/8000 (25%)]	Loss: 1.643341
5144	Train Epoch: 25 [3000/8000 (38%)]	Loss: 1.676284
5145	Train Epoch: 25 [4000/8000 (50%)]	Loss: 1.801834
5146	Train Epoch: 25 [5000/8000 (62%)]	Loss: 1.772374
5147	Train Epoch: 25 [6000/8000 (75%)]	Loss: 1.727609
5148	Train Epoch: 25 [7000/8000 (88%)]	Loss: 1.691027
5149		
5150	Test set: Avg. loss: 1.4780, Accuracy: 1136/2000 (56.800%)	
5151		
5152	New best test_loss: 1.4779757261276245!	
5153	Train Epoch: 26 [0/8000 (0%)]	Loss: 1.603410
5154	Train Epoch: 26 [1000/8000 (12%)]	Loss: 1.649898
5155	Train Epoch: 26 [2000/8000 (25%)]	Loss: 1.525589
5156	Train Epoch: 26 [3000/8000 (38%)]	Loss: 1.554257
5157	Train Epoch: 26 [4000/8000 (50%)]	Loss: 1.597389
5158	Train Epoch: 26 [5000/8000 (62%)]	Loss: 1.568265
5159	Train Epoch: 26 [6000/8000 (75%)]	Loss: 1.680271
5160	Train Epoch: 26 [7000/8000 (88%)]	Loss: 1.587049
5161		
5162	Test set: Avg. loss: 1.3423, Accuracy: 1242/2000 (62.100%)	
5163		
5164	New best test_loss: 1.342339277267456!	
5165	Train Epoch: 27 [0/8000 (0%)]	Loss: 1.487973
5166	Train Epoch: 27 [1000/8000 (12%)]	Loss: 1.613501
5167	Train Epoch: 27 [2000/8000 (25%)]	Loss: 1.505623
5168	Train Epoch: 27 [3000/8000 (38%)]	Loss: 1.579363
5169	Train Epoch: 27 [4000/8000 (50%)]	Loss: 1.598897
5170	Train Epoch: 27 [5000/8000 (62%)]	Loss: 1.595294

5171	Train Epoch: 27 [6000/8000 (75%)]	Loss: 1.417305
5172	Train Epoch: 27 [7000/8000 (88%)]	Loss: 1.569128
5173		
5174	Test set: Avg. loss: 1.2028, Accuracy: 1325/2000 (66.250%)	
5175		
5176	New best test_loss: 1.2027666568756104!	
5177	Train Epoch: 28 [0/8000 (0%)]	Loss: 1.432693
5178	Train Epoch: 28 [1000/8000 (12%)]	Loss: 1.522510
5179	Train Epoch: 28 [2000/8000 (25%)]	Loss: 1.375675
5180	Train Epoch: 28 [3000/8000 (38%)]	Loss: 1.419250
5181	Train Epoch: 28 [4000/8000 (50%)]	Loss: 1.362407
5182	Train Epoch: 28 [5000/8000 (62%)]	Loss: 1.485696
5183	Train Epoch: 28 [6000/8000 (75%)]	Loss: 1.467718
5184	Train Epoch: 28 [7000/8000 (88%)]	Loss: 1.452795
5185		
5186	Test set: Avg. loss: 1.1305, Accuracy: 1362/2000 (68.100%)	
5187		
5188	New best test_loss: 1.1304761171340942!	
5189	Train Epoch: 29 [0/8000 (0%)]	Loss: 1.346705
5190	Train Epoch: 29 [1000/8000 (12%)]	Loss: 1.359254
5191	Train Epoch: 29 [2000/8000 (25%)]	Loss: 1.163697
5192	Train Epoch: 29 [3000/8000 (38%)]	Loss: 1.396701
5193	Train Epoch: 29 [4000/8000 (50%)]	Loss: 1.371229
5194	Train Epoch: 29 [5000/8000 (62%)]	Loss: 1.456621
5195	Train Epoch: 29 [6000/8000 (75%)]	Loss: 1.291247
5196	Train Epoch: 29 [7000/8000 (88%)]	Loss: 1.373841
5197		
5198	Test set: Avg. loss: 1.0469, Accuracy: 1368/2000 (68.400%)	
5199		
5200	New best test_loss: 1.046947956085205!	
5201	Train Epoch: 30 [0/8000 (0%)]	Loss: 1.197562
5202	Train Epoch: 30 [1000/8000 (12%)]	Loss: 1.349040
5203	Train Epoch: 30 [2000/8000 (25%)]	Loss: 1.170248
5204	Train Epoch: 30 [3000/8000 (38%)]	Loss: 1.332800
5205	Train Epoch: 30 [4000/8000 (50%)]	Loss: 1.302117
5206	Train Epoch: 30 [5000/8000 (62%)]	Loss: 1.343910
5207	Train Epoch: 30 [6000/8000 (75%)]	Loss: 1.311609
5208	Train Epoch: 30 [7000/8000 (88%)]	Loss: 1.302560

5209
5210 Test set: Avg. loss: 0.9954, Accuracy: 1429/2000 (71.450%)
5211
5212 New best test_loss: 0.9954429864883423!
5213 Train Epoch: 31 [0/8000 (0%)] Loss: 1.148780
5214 Train Epoch: 31 [1000/8000 (12%)] Loss: 1.349483
5215 Train Epoch: 31 [2000/8000 (25%)] Loss: 1.092755
5216 Train Epoch: 31 [3000/8000 (38%)] Loss: 1.286359
5217 Train Epoch: 31 [4000/8000 (50%)] Loss: 1.402051
5218 Train Epoch: 31 [5000/8000 (62%)] Loss: 1.370794
5219 Train Epoch: 31 [6000/8000 (75%)] Loss: 1.301378
5220 Train Epoch: 31 [7000/8000 (88%)] Loss: 1.153822
5221
5222 Test set: Avg. loss: 0.9299, Accuracy: 1480/2000 (74.000%)
5223
5224 New best test_loss: 0.9298563003540039!
5225 Train Epoch: 32 [0/8000 (0%)] Loss: 1.219694
5226 Train Epoch: 32 [1000/8000 (12%)] Loss: 1.119919
5227 Train Epoch: 32 [2000/8000 (25%)] Loss: 1.009534
5228 Train Epoch: 32 [3000/8000 (38%)] Loss: 1.285223
5229 Train Epoch: 32 [4000/8000 (50%)] Loss: 1.160061
5230 Train Epoch: 32 [5000/8000 (62%)] Loss: 1.300367
5231 Train Epoch: 32 [6000/8000 (75%)] Loss: 1.204390
5232 Train Epoch: 32 [7000/8000 (88%)] Loss: 1.124494
5233
5234 Test set: Avg. loss: 0.8958, Accuracy: 1464/2000 (73.200%)
5235
5236 New best test_loss: 0.8958023190498352!
5237 Train Epoch: 33 [0/8000 (0%)] Loss: 1.098982
5238 Train Epoch: 33 [1000/8000 (12%)] Loss: 1.164532
5239 Train Epoch: 33 [2000/8000 (25%)] Loss: 1.094980
5240 Train Epoch: 33 [3000/8000 (38%)] Loss: 1.318439
5241 Train Epoch: 33 [4000/8000 (50%)] Loss: 1.189629
5242 Train Epoch: 33 [5000/8000 (62%)] Loss: 1.200447
5243 Train Epoch: 33 [6000/8000 (75%)] Loss: 1.205202
5244 Train Epoch: 33 [7000/8000 (88%)] Loss: 1.095272
5245
5246 Test set: Avg. loss: 0.8251, Accuracy: 1490/2000 (

```
5246 74.500%)  
5247  
5248 New best test_loss: 0.8251123428344727!  
5249 Train Epoch: 34 [0/8000 (0%)] Loss: 1.053444  
5250 Train Epoch: 34 [1000/8000 (12%)] Loss: 1.232457  
5251 Train Epoch: 34 [2000/8000 (25%)] Loss: 1.044362  
5252 Train Epoch: 34 [3000/8000 (38%)] Loss: 1.347408  
5253 Train Epoch: 34 [4000/8000 (50%)] Loss: 1.135730  
5254 Train Epoch: 34 [5000/8000 (62%)] Loss: 1.192840  
5255 Train Epoch: 34 [6000/8000 (75%)] Loss: 1.106108  
5256 Train Epoch: 34 [7000/8000 (88%)] Loss: 0.798668  
5257  
5258 Test set: Avg. loss: 0.8228, Accuracy: 1487/2000 (74.350%)  
5259  
5260 New best test_loss: 0.822797417640686!  
5261 Train Epoch: 35 [0/8000 (0%)] Loss: 0.934865  
5262 Train Epoch: 35 [1000/8000 (12%)] Loss: 1.152422  
5263 Train Epoch: 35 [2000/8000 (25%)] Loss: 1.082501  
5264 Train Epoch: 35 [3000/8000 (38%)] Loss: 1.085430  
5265 Train Epoch: 35 [4000/8000 (50%)] Loss: 1.269988  
5266 Train Epoch: 35 [5000/8000 (62%)] Loss: 1.315010  
5267 Train Epoch: 35 [6000/8000 (75%)] Loss: 1.182574  
5268 Train Epoch: 35 [7000/8000 (88%)] Loss: 1.164343  
5269  
5270 Test set: Avg. loss: 0.7959, Accuracy: 1511/2000 (75.550%)  
5271  
5272 New best test_loss: 0.7958583831787109!  
5273 Train Epoch: 36 [0/8000 (0%)] Loss: 1.047153  
5274 Train Epoch: 36 [1000/8000 (12%)] Loss: 1.059006  
5275 Train Epoch: 36 [2000/8000 (25%)] Loss: 1.036946  
5276 Train Epoch: 36 [3000/8000 (38%)] Loss: 1.038721  
5277 Train Epoch: 36 [4000/8000 (50%)] Loss: 1.154119  
5278 Train Epoch: 36 [5000/8000 (62%)] Loss: 1.164749  
5279 Train Epoch: 36 [6000/8000 (75%)] Loss: 1.178146  
5280 Train Epoch: 36 [7000/8000 (88%)] Loss: 0.999424  
5281  
5282 Test set: Avg. loss: 0.7898, Accuracy: 1519/2000 (75.950%)  
5283
```

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5284 New best test_loss: 0.7897887229919434!
5285 Train Epoch: 37 [0/8000 (0%)] Loss: 0.934644
5286 Train Epoch: 37 [1000/8000 (12%)] Loss: 1.150177
5287 Train Epoch: 37 [2000/8000 (25%)] Loss: 1.003403
5288 Train Epoch: 37 [3000/8000 (38%)] Loss: 1.151797
5289 Train Epoch: 37 [4000/8000 (50%)] Loss: 1.085476
5290 Train Epoch: 37 [5000/8000 (62%)] Loss: 1.139062
5291 Train Epoch: 37 [6000/8000 (75%)] Loss: 1.055599
5292 Train Epoch: 37 [7000/8000 (88%)] Loss: 0.988643
5293
5294 Test set: Avg. loss: 0.7694, Accuracy: 1519/2000 (75.950%)
5295
5296 New best test_loss: 0.7693780660629272!
5297 Train Epoch: 38 [0/8000 (0%)] Loss: 1.021026
5298 Train Epoch: 38 [1000/8000 (12%)] Loss: 1.036708
5299 Train Epoch: 38 [2000/8000 (25%)] Loss: 0.978029
5300 Train Epoch: 38 [3000/8000 (38%)] Loss: 1.122690
5301 Train Epoch: 38 [4000/8000 (50%)] Loss: 1.158262
5302 Train Epoch: 38 [5000/8000 (62%)] Loss: 1.152722
5303 Train Epoch: 38 [6000/8000 (75%)] Loss: 1.004355
5304 Train Epoch: 38 [7000/8000 (88%)] Loss: 1.077302
5305
5306 Test set: Avg. loss: 0.7435, Accuracy: 1515/2000 (75.750%)
5307
5308 New best test_loss: 0.7435307502746582!
5309 Train Epoch: 39 [0/8000 (0%)] Loss: 1.030019
5310 Train Epoch: 39 [1000/8000 (12%)] Loss: 1.163051
5311 Train Epoch: 39 [2000/8000 (25%)] Loss: 1.025491
5312 Train Epoch: 39 [3000/8000 (38%)] Loss: 0.958385
5313 Train Epoch: 39 [4000/8000 (50%)] Loss: 1.124272
5314 Train Epoch: 39 [5000/8000 (62%)] Loss: 1.127062
5315 Train Epoch: 39 [6000/8000 (75%)] Loss: 0.971205
5316 Train Epoch: 39 [7000/8000 (88%)] Loss: 0.983776
5317
5318 Test set: Avg. loss: 0.7324, Accuracy: 1541/2000 (77.050%)
5319
5320 New best test_loss: 0.7323676347732544!
5321 Train Epoch: 40 [0/8000 (0%)] Loss: 0.875988
```

5322	Train Epoch: 40	[1000/8000 (12%)]	Loss: 0.996257
5323	Train Epoch: 40	[2000/8000 (25%)]	Loss: 0.912067
5324	Train Epoch: 40	[3000/8000 (38%)]	Loss: 1.125958
5325	Train Epoch: 40	[4000/8000 (50%)]	Loss: 1.206990
5326	Train Epoch: 40	[5000/8000 (62%)]	Loss: 1.101943
5327	Train Epoch: 40	[6000/8000 (75%)]	Loss: 0.843782
5328	Train Epoch: 40	[7000/8000 (88%)]	Loss: 1.009908
5329			
5330	Test set:	Avg. loss: 0.7345, Accuracy: 1544/2000 (77.200%)	
5331			
5332	Train Epoch: 41	[0/8000 (0%)]	Loss: 0.905801
5333	Train Epoch: 41	[1000/8000 (12%)]	Loss: 1.005860
5334	Train Epoch: 41	[2000/8000 (25%)]	Loss: 0.885292
5335	Train Epoch: 41	[3000/8000 (38%)]	Loss: 1.166862
5336	Train Epoch: 41	[4000/8000 (50%)]	Loss: 1.063520
5337	Train Epoch: 41	[5000/8000 (62%)]	Loss: 1.024151
5338	Train Epoch: 41	[6000/8000 (75%)]	Loss: 0.941825
5339	Train Epoch: 41	[7000/8000 (88%)]	Loss: 0.965321
5340			
5341	Test set:	Avg. loss: 0.7030, Accuracy: 1569/2000 (78.450%)	
5342			
5343	New best test_loss: 0.7030414938926697!		
5344	Train Epoch: 42	[0/8000 (0%)]	Loss: 0.860525
5345	Train Epoch: 42	[1000/8000 (12%)]	Loss: 0.994391
5346	Train Epoch: 42	[2000/8000 (25%)]	Loss: 0.780260
5347	Train Epoch: 42	[3000/8000 (38%)]	Loss: 1.027619
5348	Train Epoch: 42	[4000/8000 (50%)]	Loss: 1.107754
5349	Train Epoch: 42	[5000/8000 (62%)]	Loss: 0.975715
5350	Train Epoch: 42	[6000/8000 (75%)]	Loss: 0.932444
5351	Train Epoch: 42	[7000/8000 (88%)]	Loss: 0.958384
5352			
5353	Test set:	Avg. loss: 0.7007, Accuracy: 1546/2000 (77.300%)	
5354			
5355	New best test_loss: 0.7006840705871582!		
5356	Train Epoch: 43	[0/8000 (0%)]	Loss: 0.986843
5357	Train Epoch: 43	[1000/8000 (12%)]	Loss: 1.046487
5358	Train Epoch: 43	[2000/8000 (25%)]	Loss: 0.827802
5359	Train Epoch: 43	[3000/8000 (38%)]	Loss: 1.078135

5360	Train Epoch: 43	[4000/8000 (50%)]	Loss: 0.947936
5361	Train Epoch: 43	[5000/8000 (62%)]	Loss: 0.879979
5362	Train Epoch: 43	[6000/8000 (75%)]	Loss: 0.938774
5363	Train Epoch: 43	[7000/8000 (88%)]	Loss: 1.071285
5364			
5365	Test set:	Avg. loss: 0.6930, Accuracy: 1569/2000 (78.450%)	
5366			
5367	New best test_loss:	0.6930142045021057!	
5368	Train Epoch: 44	[0/8000 (0%)]	Loss: 0.885521
5369	Train Epoch: 44	[1000/8000 (12%)]	Loss: 0.912826
5370	Train Epoch: 44	[2000/8000 (25%)]	Loss: 0.900114
5371	Train Epoch: 44	[3000/8000 (38%)]	Loss: 1.105935
5372	Train Epoch: 44	[4000/8000 (50%)]	Loss: 0.993822
5373	Train Epoch: 44	[5000/8000 (62%)]	Loss: 1.151434
5374	Train Epoch: 44	[6000/8000 (75%)]	Loss: 0.898571
5375	Train Epoch: 44	[7000/8000 (88%)]	Loss: 0.916917
5376			
5377	Test set:	Avg. loss: 0.6900, Accuracy: 1543/2000 (77.150%)	
5378			
5379	New best test_loss:	0.68999183177948!	
5380	Train Epoch: 45	[0/8000 (0%)]	Loss: 0.864312
5381	Train Epoch: 45	[1000/8000 (12%)]	Loss: 0.968375
5382	Train Epoch: 45	[2000/8000 (25%)]	Loss: 0.912903
5383	Train Epoch: 45	[3000/8000 (38%)]	Loss: 1.069884
5384	Train Epoch: 45	[4000/8000 (50%)]	Loss: 1.049389
5385	Train Epoch: 45	[5000/8000 (62%)]	Loss: 0.950935
5386	Train Epoch: 45	[6000/8000 (75%)]	Loss: 0.903937
5387	Train Epoch: 45	[7000/8000 (88%)]	Loss: 0.945052
5388			
5389	Test set:	Avg. loss: 0.6648, Accuracy: 1576/2000 (78.800%)	
5390			
5391	New best test_loss:	0.6648377776145935!	
5392	Train Epoch: 46	[0/8000 (0%)]	Loss: 0.800504
5393	Train Epoch: 46	[1000/8000 (12%)]	Loss: 0.995027
5394	Train Epoch: 46	[2000/8000 (25%)]	Loss: 0.834331
5395	Train Epoch: 46	[3000/8000 (38%)]	Loss: 1.162437
5396	Train Epoch: 46	[4000/8000 (50%)]	Loss: 1.052599
5397	Train Epoch: 46	[5000/8000 (62%)]	Loss: 1.045885

5398	Train Epoch: 46 [6000/8000 (75%)]	Loss: 0.900995
5399	Train Epoch: 46 [7000/8000 (88%)]	Loss: 0.911279
5400		
5401	Test set: Avg. loss: 0.6660, Accuracy: 1581/2000 (79.050%)	
5402		
5403	Train Epoch: 47 [0/8000 (0%)]	Loss: 0.896345
5404	Train Epoch: 47 [1000/8000 (12%)]	Loss: 0.861534
5405	Train Epoch: 47 [2000/8000 (25%)]	Loss: 0.796659
5406	Train Epoch: 47 [3000/8000 (38%)]	Loss: 1.135802
5407	Train Epoch: 47 [4000/8000 (50%)]	Loss: 0.930972
5408	Train Epoch: 47 [5000/8000 (62%)]	Loss: 0.884999
5409	Train Epoch: 47 [6000/8000 (75%)]	Loss: 0.852883
5410	Train Epoch: 47 [7000/8000 (88%)]	Loss: 1.056907
5411		
5412	Test set: Avg. loss: 0.6365, Accuracy: 1613/2000 (80.650%)	
5413		
5414	New best test_loss: 0.6364938020706177!	
5415	Train Epoch: 48 [0/8000 (0%)]	Loss: 0.917560
5416	Train Epoch: 48 [1000/8000 (12%)]	Loss: 0.959157
5417	Train Epoch: 48 [2000/8000 (25%)]	Loss: 0.705117
5418	Train Epoch: 48 [3000/8000 (38%)]	Loss: 0.940072
5419	Train Epoch: 48 [4000/8000 (50%)]	Loss: 1.113043
5420	Train Epoch: 48 [5000/8000 (62%)]	Loss: 0.896879
5421	Train Epoch: 48 [6000/8000 (75%)]	Loss: 0.854618
5422	Train Epoch: 48 [7000/8000 (88%)]	Loss: 0.928447
5423		
5424	Test set: Avg. loss: 0.6538, Accuracy: 1573/2000 (78.650%)	
5425		
5426	Train Epoch: 49 [0/8000 (0%)]	Loss: 0.899439
5427	Train Epoch: 49 [1000/8000 (12%)]	Loss: 0.942644
5428	Train Epoch: 49 [2000/8000 (25%)]	Loss: 0.740121
5429	Train Epoch: 49 [3000/8000 (38%)]	Loss: 0.981740
5430	Train Epoch: 49 [4000/8000 (50%)]	Loss: 0.932962
5431	Train Epoch: 49 [5000/8000 (62%)]	Loss: 0.965356
5432	Train Epoch: 49 [6000/8000 (75%)]	Loss: 0.808667
5433	Train Epoch: 49 [7000/8000 (88%)]	Loss: 0.922907
5434		
5435	Test set: Avg. loss: 0.6321, Accuracy: 1609/2000 (

```
5435 80.450%)  
5436  
5437 New best test_loss: 0.6321277618408203!  
5438 Train Epoch: 50 [0/8000 (0%)] Loss: 0.738944  
5439 Train Epoch: 50 [1000/8000 (12%)] Loss: 0.961704  
5440 Train Epoch: 50 [2000/8000 (25%)] Loss: 0.984660  
5441 Train Epoch: 50 [3000/8000 (38%)] Loss: 0.903221  
5442 Train Epoch: 50 [4000/8000 (50%)] Loss: 1.062699  
5443 Train Epoch: 50 [5000/8000 (62%)] Loss: 0.963753  
5444 Train Epoch: 50 [6000/8000 (75%)] Loss: 0.989278  
5445 Train Epoch: 50 [7000/8000 (88%)] Loss: 0.986078  
5446  
5447 Test set: Avg. loss: 0.6135, Accuracy: 1622/2000 (81.100%)  
5448  
5449 New best test_loss: 0.6134625673294067!  
5450 Train Epoch: 51 [0/8000 (0%)] Loss: 0.838007  
5451 Train Epoch: 51 [1000/8000 (12%)] Loss: 0.878716  
5452 Train Epoch: 51 [2000/8000 (25%)] Loss: 0.762041  
5453 Train Epoch: 51 [3000/8000 (38%)] Loss: 1.028790  
5454 Train Epoch: 51 [4000/8000 (50%)] Loss: 0.872249  
5455 Train Epoch: 51 [5000/8000 (62%)] Loss: 0.967491  
5456 Train Epoch: 51 [6000/8000 (75%)] Loss: 0.909753  
5457 Train Epoch: 51 [7000/8000 (88%)] Loss: 0.935597  
5458  
5459 Test set: Avg. loss: 0.6169, Accuracy: 1627/2000 (81.350%)  
5460  
5461 Train Epoch: 52 [0/8000 (0%)] Loss: 0.733390  
5462 Train Epoch: 52 [1000/8000 (12%)] Loss: 0.960580  
5463 Train Epoch: 52 [2000/8000 (25%)] Loss: 0.762028  
5464 Train Epoch: 52 [3000/8000 (38%)] Loss: 0.968174  
5465 Train Epoch: 52 [4000/8000 (50%)] Loss: 0.895657  
5466 Train Epoch: 52 [5000/8000 (62%)] Loss: 0.803309  
5467 Train Epoch: 52 [6000/8000 (75%)] Loss: 0.769468  
5468 Train Epoch: 52 [7000/8000 (88%)] Loss: 0.777904  
5469  
5470 Test set: Avg. loss: 0.6407, Accuracy: 1588/2000 (79.400%)  
5471  
5472 Train Epoch: 53 [0/8000 (0%)] Loss: 0.803961
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5473	Train Epoch: 53	[1000/8000 (12%)]	Loss: 0.799697
5474	Train Epoch: 53	[2000/8000 (25%)]	Loss: 0.713685
5475	Train Epoch: 53	[3000/8000 (38%)]	Loss: 0.726839
5476	Train Epoch: 53	[4000/8000 (50%)]	Loss: 0.926474
5477	Train Epoch: 53	[5000/8000 (62%)]	Loss: 1.037948
5478	Train Epoch: 53	[6000/8000 (75%)]	Loss: 0.980217
5479	Train Epoch: 53	[7000/8000 (88%)]	Loss: 0.921655
5480			
5481	Test set:	Avg. loss: 0.6158, Accuracy: 1609/2000 (80.450%)	
5482			
5483	Train Epoch: 54	[0/8000 (0%)]	Loss: 0.746139
5484	Train Epoch: 54	[1000/8000 (12%)]	Loss: 0.816393
5485	Train Epoch: 54	[2000/8000 (25%)]	Loss: 0.790689
5486	Train Epoch: 54	[3000/8000 (38%)]	Loss: 0.830381
5487	Train Epoch: 54	[4000/8000 (50%)]	Loss: 0.817796
5488	Train Epoch: 54	[5000/8000 (62%)]	Loss: 0.990502
5489	Train Epoch: 54	[6000/8000 (75%)]	Loss: 0.793851
5490	Train Epoch: 54	[7000/8000 (88%)]	Loss: 0.728066
5491			
5492	Test set:	Avg. loss: 0.5841, Accuracy: 1641/2000 (82.050%)	
5493			
5494	New best test_loss: 0.5840708613395691!		
5495	Train Epoch: 55	[0/8000 (0%)]	Loss: 0.775129
5496	Train Epoch: 55	[1000/8000 (12%)]	Loss: 0.840106
5497	Train Epoch: 55	[2000/8000 (25%)]	Loss: 0.808954
5498	Train Epoch: 55	[3000/8000 (38%)]	Loss: 0.921117
5499	Train Epoch: 55	[4000/8000 (50%)]	Loss: 0.903700
5500	Train Epoch: 55	[5000/8000 (62%)]	Loss: 0.910741
5501	Train Epoch: 55	[6000/8000 (75%)]	Loss: 0.743764
5502	Train Epoch: 55	[7000/8000 (88%)]	Loss: 0.849702
5503			
5504	Test set:	Avg. loss: 0.5956, Accuracy: 1627/2000 (81.350%)	
5505			
5506	Train Epoch: 56	[0/8000 (0%)]	Loss: 0.711037
5507	Train Epoch: 56	[1000/8000 (12%)]	Loss: 0.828244
5508	Train Epoch: 56	[2000/8000 (25%)]	Loss: 0.803776
5509	Train Epoch: 56	[3000/8000 (38%)]	Loss: 1.007943
5510	Train Epoch: 56	[4000/8000 (50%)]	Loss: 0.909726

5511	Train Epoch: 56 [5000/8000 (62%)]	Loss: 0.853048
5512	Train Epoch: 56 [6000/8000 (75%)]	Loss: 0.836586
5513	Train Epoch: 56 [7000/8000 (88%)]	Loss: 0.900233
5514		
5515	Test set: Avg. loss: 0.5882, Accuracy: 1640/2000 (82.000%)	
5516		
5517	Train Epoch: 57 [0/8000 (0%)]	Loss: 0.823922
5518	Train Epoch: 57 [1000/8000 (12%)]	Loss: 0.821099
5519	Train Epoch: 57 [2000/8000 (25%)]	Loss: 0.766842
5520	Train Epoch: 57 [3000/8000 (38%)]	Loss: 1.015407
5521	Train Epoch: 57 [4000/8000 (50%)]	Loss: 1.014440
5522	Train Epoch: 57 [5000/8000 (62%)]	Loss: 0.862075
5523	Train Epoch: 57 [6000/8000 (75%)]	Loss: 0.866271
5524	Train Epoch: 57 [7000/8000 (88%)]	Loss: 0.878037
5525		
5526	Test set: Avg. loss: 0.5999, Accuracy: 1646/2000 (82.300%)	
5527		
5528	Train Epoch: 58 [0/8000 (0%)]	Loss: 0.667874
5529	Train Epoch: 58 [1000/8000 (12%)]	Loss: 0.855980
5530	Train Epoch: 58 [2000/8000 (25%)]	Loss: 0.733748
5531	Train Epoch: 58 [3000/8000 (38%)]	Loss: 0.911362
5532	Train Epoch: 58 [4000/8000 (50%)]	Loss: 0.903318
5533	Train Epoch: 58 [5000/8000 (62%)]	Loss: 0.858344
5534	Train Epoch: 58 [6000/8000 (75%)]	Loss: 0.745730
5535	Train Epoch: 58 [7000/8000 (88%)]	Loss: 0.764974
5536		
5537	Test set: Avg. loss: 0.5738, Accuracy: 1635/2000 (81.750%)	
5538		
5539	New best test_loss: 0.5738013386726379!	
5540	Train Epoch: 59 [0/8000 (0%)]	Loss: 0.726098
5541	Train Epoch: 59 [1000/8000 (12%)]	Loss: 0.855735
5542	Train Epoch: 59 [2000/8000 (25%)]	Loss: 0.836490
5543	Train Epoch: 59 [3000/8000 (38%)]	Loss: 0.883636
5544	Train Epoch: 59 [4000/8000 (50%)]	Loss: 0.891518
5545	Train Epoch: 59 [5000/8000 (62%)]	Loss: 0.844545
5546	Train Epoch: 59 [6000/8000 (75%)]	Loss: 0.779012
5547	Train Epoch: 59 [7000/8000 (88%)]	Loss: 0.810565
5548		

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5549 Test set: Avg. loss: 0.5986, Accuracy: 1632/2000 (81.600%)
5550
5551 Train Epoch: 60 [0/8000 (0%)] Loss: 0.710176
5552 Train Epoch: 60 [1000/8000 (12%)] Loss: 0.792772
5553 Train Epoch: 60 [2000/8000 (25%)] Loss: 0.738276
5554 Train Epoch: 60 [3000/8000 (38%)] Loss: 1.004588
5555 Train Epoch: 60 [4000/8000 (50%)] Loss: 0.905458
5556 Train Epoch: 60 [5000/8000 (62%)] Loss: 0.752604
5557 Train Epoch: 60 [6000/8000 (75%)] Loss: 0.704764
5558 Train Epoch: 60 [7000/8000 (88%)] Loss: 0.901988
5559
5560 Test set: Avg. loss: 0.5697, Accuracy: 1648/2000 (82.400%)
5561
5562 New best test_loss: 0.5696645379066467!
5563 Train Epoch: 61 [0/8000 (0%)] Loss: 0.715549
5564 Train Epoch: 61 [1000/8000 (12%)] Loss: 0.794109
5565 Train Epoch: 61 [2000/8000 (25%)] Loss: 0.754010
5566 Train Epoch: 61 [3000/8000 (38%)] Loss: 0.963465
5567 Train Epoch: 61 [4000/8000 (50%)] Loss: 0.831220
5568 Train Epoch: 61 [5000/8000 (62%)] Loss: 0.867349
5569 Train Epoch: 61 [6000/8000 (75%)] Loss: 0.701632
5570 Train Epoch: 61 [7000/8000 (88%)] Loss: 0.887079
5571
5572 Test set: Avg. loss: 0.5601, Accuracy: 1656/2000 (82.800%)
5573
5574 New best test_loss: 0.5600800514221191!
5575 Train Epoch: 62 [0/8000 (0%)] Loss: 0.611630
5576 Train Epoch: 62 [1000/8000 (12%)] Loss: 0.738522
5577 Train Epoch: 62 [2000/8000 (25%)] Loss: 0.840840
5578 Train Epoch: 62 [3000/8000 (38%)] Loss: 0.902099
5579 Train Epoch: 62 [4000/8000 (50%)] Loss: 0.877709
5580 Train Epoch: 62 [5000/8000 (62%)] Loss: 0.821291
5581 Train Epoch: 62 [6000/8000 (75%)] Loss: 0.857402
5582 Train Epoch: 62 [7000/8000 (88%)] Loss: 0.744333
5583
5584 Test set: Avg. loss: 0.5596, Accuracy: 1648/2000 (82.400%)
5585
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5586 New best test_loss: 0.559577465057373!
5587 Train Epoch: 63 [0/8000 (0%)] Loss: 0.732540
5588 Train Epoch: 63 [1000/8000 (12%)] Loss: 0.808746
5589 Train Epoch: 63 [2000/8000 (25%)] Loss: 0.649289
5590 Train Epoch: 63 [3000/8000 (38%)] Loss: 1.005900
5591 Train Epoch: 63 [4000/8000 (50%)] Loss: 0.836460
5592 Train Epoch: 63 [5000/8000 (62%)] Loss: 0.864695
5593 Train Epoch: 63 [6000/8000 (75%)] Loss: 0.924140
5594 Train Epoch: 63 [7000/8000 (88%)] Loss: 0.715644
5595
5596 Test set: Avg. loss: 0.5562, Accuracy: 1666/2000 (83.300%)
5597
5598 New best test_loss: 0.556222140789032!
5599 Train Epoch: 64 [0/8000 (0%)] Loss: 0.826648
5600 Train Epoch: 64 [1000/8000 (12%)] Loss: 0.794703
5601 Train Epoch: 64 [2000/8000 (25%)] Loss: 0.803208
5602 Train Epoch: 64 [3000/8000 (38%)] Loss: 0.845943
5603 Train Epoch: 64 [4000/8000 (50%)] Loss: 0.722730
5604 Train Epoch: 64 [5000/8000 (62%)] Loss: 0.836987
5605 Train Epoch: 64 [6000/8000 (75%)] Loss: 0.626243
5606 Train Epoch: 64 [7000/8000 (88%)] Loss: 0.896099
5607
5608 Test set: Avg. loss: 0.5356, Accuracy: 1672/2000 (83.600%)
5609
5610 New best test_loss: 0.5356379151344299!
5611 Train Epoch: 65 [0/8000 (0%)] Loss: 0.662035
5612 Train Epoch: 65 [1000/8000 (12%)] Loss: 0.848572
5613 Train Epoch: 65 [2000/8000 (25%)] Loss: 0.782194
5614 Train Epoch: 65 [3000/8000 (38%)] Loss: 0.865902
5615 Train Epoch: 65 [4000/8000 (50%)] Loss: 0.723415
5616 Train Epoch: 65 [5000/8000 (62%)] Loss: 0.844328
5617 Train Epoch: 65 [6000/8000 (75%)] Loss: 0.817717
5618 Train Epoch: 65 [7000/8000 (88%)] Loss: 0.818915
5619
5620 Test set: Avg. loss: 0.5495, Accuracy: 1653/2000 (82.650%)
5621
5622 Train Epoch: 66 [0/8000 (0%)] Loss: 0.867616
5623 Train Epoch: 66 [1000/8000 (12%)] Loss: 0.720023
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5624	Train Epoch: 66	[2000/8000 (25%)]	Loss: 0.672517
5625	Train Epoch: 66	[3000/8000 (38%)]	Loss: 0.870294
5626	Train Epoch: 66	[4000/8000 (50%)]	Loss: 0.830752
5627	Train Epoch: 66	[5000/8000 (62%)]	Loss: 0.979672
5628	Train Epoch: 66	[6000/8000 (75%)]	Loss: 0.770862
5629	Train Epoch: 66	[7000/8000 (88%)]	Loss: 0.868699
5630			
5631	Test set:	Avg. loss: 0.5407, Accuracy: 1664/2000 (83.200%)	
5632			
5633	Train Epoch: 67	[0/8000 (0%)]	Loss: 0.760745
5634	Train Epoch: 67	[1000/8000 (12%)]	Loss: 0.759272
5635	Train Epoch: 67	[2000/8000 (25%)]	Loss: 0.724804
5636	Train Epoch: 67	[3000/8000 (38%)]	Loss: 0.849228
5637	Train Epoch: 67	[4000/8000 (50%)]	Loss: 0.845603
5638	Train Epoch: 67	[5000/8000 (62%)]	Loss: 0.792820
5639	Train Epoch: 67	[6000/8000 (75%)]	Loss: 0.803270
5640	Train Epoch: 67	[7000/8000 (88%)]	Loss: 0.812697
5641			
5642	Test set:	Avg. loss: 0.5313, Accuracy: 1681/2000 (84.050%)	
5643			
5644	New best test_loss: 0.5312923192977905!		
5645	Train Epoch: 68	[0/8000 (0%)]	Loss: 0.632650
5646	Train Epoch: 68	[1000/8000 (12%)]	Loss: 0.866056
5647	Train Epoch: 68	[2000/8000 (25%)]	Loss: 0.675412
5648	Train Epoch: 68	[3000/8000 (38%)]	Loss: 0.821907
5649	Train Epoch: 68	[4000/8000 (50%)]	Loss: 0.778444
5650	Train Epoch: 68	[5000/8000 (62%)]	Loss: 0.820310
5651	Train Epoch: 68	[6000/8000 (75%)]	Loss: 0.710697
5652	Train Epoch: 68	[7000/8000 (88%)]	Loss: 0.765625
5653			
5654	Test set:	Avg. loss: 0.5441, Accuracy: 1658/2000 (82.900%)	
5655			
5656	Train Epoch: 69	[0/8000 (0%)]	Loss: 0.604783
5657	Train Epoch: 69	[1000/8000 (12%)]	Loss: 0.807170
5658	Train Epoch: 69	[2000/8000 (25%)]	Loss: 0.808042
5659	Train Epoch: 69	[3000/8000 (38%)]	Loss: 1.019388
5660	Train Epoch: 69	[4000/8000 (50%)]	Loss: 0.761692
5661	Train Epoch: 69	[5000/8000 (62%)]	Loss: 0.792130

5662	Train Epoch: 69 [6000/8000 (75%)]	Loss: 0.747384
5663	Train Epoch: 69 [7000/8000 (88%)]	Loss: 0.853183
5664		
5665	Test set: Avg. loss: 0.5376, Accuracy: 1663/2000 (83.150%)	
5666		
5667	Train Epoch: 70 [0/8000 (0%)]	Loss: 0.710068
5668	Train Epoch: 70 [1000/8000 (12%)]	Loss: 0.576075
5669	Train Epoch: 70 [2000/8000 (25%)]	Loss: 0.834104
5670	Train Epoch: 70 [3000/8000 (38%)]	Loss: 0.822280
5671	Train Epoch: 70 [4000/8000 (50%)]	Loss: 0.810246
5672	Train Epoch: 70 [5000/8000 (62%)]	Loss: 0.814781
5673	Train Epoch: 70 [6000/8000 (75%)]	Loss: 0.690023
5674	Train Epoch: 70 [7000/8000 (88%)]	Loss: 0.808926
5675		
5676	Test set: Avg. loss: 0.5250, Accuracy: 1678/2000 (83.900%)	
5677		
5678	New best test_loss: 0.5250226855278015!	
5679	Train Epoch: 71 [0/8000 (0%)]	Loss: 0.622601
5680	Train Epoch: 71 [1000/8000 (12%)]	Loss: 0.760158
5681	Train Epoch: 71 [2000/8000 (25%)]	Loss: 0.717546
5682	Train Epoch: 71 [3000/8000 (38%)]	Loss: 0.923727
5683	Train Epoch: 71 [4000/8000 (50%)]	Loss: 0.761439
5684	Train Epoch: 71 [5000/8000 (62%)]	Loss: 0.814636
5685	Train Epoch: 71 [6000/8000 (75%)]	Loss: 0.685898
5686	Train Epoch: 71 [7000/8000 (88%)]	Loss: 0.775367
5687		
5688	Test set: Avg. loss: 0.5174, Accuracy: 1677/2000 (83.850%)	
5689		
5690	New best test_loss: 0.5173529386520386!	
5691	Train Epoch: 72 [0/8000 (0%)]	Loss: 0.684965
5692	Train Epoch: 72 [1000/8000 (12%)]	Loss: 0.848152
5693	Train Epoch: 72 [2000/8000 (25%)]	Loss: 0.711763
5694	Train Epoch: 72 [3000/8000 (38%)]	Loss: 0.857751
5695	Train Epoch: 72 [4000/8000 (50%)]	Loss: 0.718094
5696	Train Epoch: 72 [5000/8000 (62%)]	Loss: 0.679853
5697	Train Epoch: 72 [6000/8000 (75%)]	Loss: 0.822739
5698	Train Epoch: 72 [7000/8000 (88%)]	Loss: 0.723011
5699		

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5700 Test set: Avg. loss: 0.5144, Accuracy: 1694/2000 (84.700%)
5701
5702 New best test_loss: 0.5143736004829407!
5703 Train Epoch: 73 [0/8000 (0%)] Loss: 0.612151
5704 Train Epoch: 73 [1000/8000 (12%)] Loss: 0.717580
5705 Train Epoch: 73 [2000/8000 (25%)] Loss: 0.671279
5706 Train Epoch: 73 [3000/8000 (38%)] Loss: 0.844551
5707 Train Epoch: 73 [4000/8000 (50%)] Loss: 0.750532
5708 Train Epoch: 73 [5000/8000 (62%)] Loss: 0.795953
5709 Train Epoch: 73 [6000/8000 (75%)] Loss: 0.783848
5710 Train Epoch: 73 [7000/8000 (88%)] Loss: 0.754382
5711
5712 Test set: Avg. loss: 0.5193, Accuracy: 1668/2000 (83.400%)
5713
5714 Train Epoch: 74 [0/8000 (0%)] Loss: 0.758375
5715 Train Epoch: 74 [1000/8000 (12%)] Loss: 0.834705
5716 Train Epoch: 74 [2000/8000 (25%)] Loss: 0.758336
5717 Train Epoch: 74 [3000/8000 (38%)] Loss: 0.837217
5718 Train Epoch: 74 [4000/8000 (50%)] Loss: 0.686455
5719 Train Epoch: 74 [5000/8000 (62%)] Loss: 0.757562
5720 Train Epoch: 74 [6000/8000 (75%)] Loss: 0.802019
5721 Train Epoch: 74 [7000/8000 (88%)] Loss: 0.782573
5722
5723 Test set: Avg. loss: 0.5027, Accuracy: 1685/2000 (84.250%)
5724
5725 New best test_loss: 0.502666175365448!
5726 Train Epoch: 75 [0/8000 (0%)] Loss: 0.853045
5727 Train Epoch: 75 [1000/8000 (12%)] Loss: 0.762233
5728 Train Epoch: 75 [2000/8000 (25%)] Loss: 0.732504
5729 Train Epoch: 75 [3000/8000 (38%)] Loss: 0.827518
5730 Train Epoch: 75 [4000/8000 (50%)] Loss: 0.826557
5731 Train Epoch: 75 [5000/8000 (62%)] Loss: 0.780156
5732 Train Epoch: 75 [6000/8000 (75%)] Loss: 0.662657
5733 Train Epoch: 75 [7000/8000 (88%)] Loss: 0.754593
5734
5735 Test set: Avg. loss: 0.5099, Accuracy: 1692/2000 (84.600%)
5736
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5737	Train Epoch: 76	[0/8000 (0%)]	Loss: 0.549540
5738	Train Epoch: 76	[1000/8000 (12%)]	Loss: 0.819574
5739	Train Epoch: 76	[2000/8000 (25%)]	Loss: 0.679619
5740	Train Epoch: 76	[3000/8000 (38%)]	Loss: 0.721893
5741	Train Epoch: 76	[4000/8000 (50%)]	Loss: 0.822391
5742	Train Epoch: 76	[5000/8000 (62%)]	Loss: 0.765171
5743	Train Epoch: 76	[6000/8000 (75%)]	Loss: 0.731455
5744	Train Epoch: 76	[7000/8000 (88%)]	Loss: 0.797095
5745			
5746	Test set:	Avg. loss: 0.5045, Accuracy: 1693/2000 (84.650%)	
5747			
5748	Train Epoch: 77	[0/8000 (0%)]	Loss: 0.607946
5749	Train Epoch: 77	[1000/8000 (12%)]	Loss: 0.762433
5750	Train Epoch: 77	[2000/8000 (25%)]	Loss: 0.678356
5751	Train Epoch: 77	[3000/8000 (38%)]	Loss: 0.920148
5752	Train Epoch: 77	[4000/8000 (50%)]	Loss: 0.809744
5753	Train Epoch: 77	[5000/8000 (62%)]	Loss: 0.852803
5754	Train Epoch: 77	[6000/8000 (75%)]	Loss: 0.669043
5755	Train Epoch: 77	[7000/8000 (88%)]	Loss: 0.822543
5756			
5757	Test set:	Avg. loss: 0.5150, Accuracy: 1678/2000 (83.900%)	
5758			
5759	Train Epoch: 78	[0/8000 (0%)]	Loss: 0.802723
5760	Train Epoch: 78	[1000/8000 (12%)]	Loss: 0.772525
5761	Train Epoch: 78	[2000/8000 (25%)]	Loss: 0.709390
5762	Train Epoch: 78	[3000/8000 (38%)]	Loss: 0.913648
5763	Train Epoch: 78	[4000/8000 (50%)]	Loss: 0.868706
5764	Train Epoch: 78	[5000/8000 (62%)]	Loss: 0.728593
5765	Train Epoch: 78	[6000/8000 (75%)]	Loss: 0.791611
5766	Train Epoch: 78	[7000/8000 (88%)]	Loss: 0.762584
5767			
5768	Test set:	Avg. loss: 0.5057, Accuracy: 1698/2000 (84.900%)	
5769			
5770	Train Epoch: 79	[0/8000 (0%)]	Loss: 0.793169
5771	Train Epoch: 79	[1000/8000 (12%)]	Loss: 0.714644
5772	Train Epoch: 79	[2000/8000 (25%)]	Loss: 0.702353
5773	Train Epoch: 79	[3000/8000 (38%)]	Loss: 0.893172
5774	Train Epoch: 79	[4000/8000 (50%)]	Loss: 0.738335

5775	Train Epoch: 79 [5000/8000 (62%)]	Loss: 0.765603
5776	Train Epoch: 79 [6000/8000 (75%)]	Loss: 0.765978
5777	Train Epoch: 79 [7000/8000 (88%)]	Loss: 0.674361
5778		
5779	Test set: Avg. loss: 0.4934, Accuracy: 1693/2000 (84.650%)	
5780		
5781	New best test_loss: 0.4934398829936981!	
5782	Train Epoch: 80 [0/8000 (0%)]	Loss: 0.702866
5783	Train Epoch: 80 [1000/8000 (12%)]	Loss: 0.840246
5784	Train Epoch: 80 [2000/8000 (25%)]	Loss: 0.677836
5785	Train Epoch: 80 [3000/8000 (38%)]	Loss: 0.884829
5786	Train Epoch: 80 [4000/8000 (50%)]	Loss: 0.862310
5787	Train Epoch: 80 [5000/8000 (62%)]	Loss: 0.656551
5788	Train Epoch: 80 [6000/8000 (75%)]	Loss: 0.606401
5789	Train Epoch: 80 [7000/8000 (88%)]	Loss: 0.796448
5790		
5791	Test set: Avg. loss: 0.4897, Accuracy: 1703/2000 (85.150%)	
5792		
5793	New best test_loss: 0.4897303283214569!	
5794	Train Epoch: 81 [0/8000 (0%)]	Loss: 0.624297
5795	Train Epoch: 81 [1000/8000 (12%)]	Loss: 0.616595
5796	Train Epoch: 81 [2000/8000 (25%)]	Loss: 0.647152
5797	Train Epoch: 81 [3000/8000 (38%)]	Loss: 0.934323
5798	Train Epoch: 81 [4000/8000 (50%)]	Loss: 0.775791
5799	Train Epoch: 81 [5000/8000 (62%)]	Loss: 0.708495
5800	Train Epoch: 81 [6000/8000 (75%)]	Loss: 0.709154
5801	Train Epoch: 81 [7000/8000 (88%)]	Loss: 0.708590
5802		
5803	Test set: Avg. loss: 0.4837, Accuracy: 1699/2000 (84.950%)	
5804		
5805	New best test_loss: 0.4836652874946594!	
5806	Train Epoch: 82 [0/8000 (0%)]	Loss: 0.624266
5807	Train Epoch: 82 [1000/8000 (12%)]	Loss: 0.665743
5808	Train Epoch: 82 [2000/8000 (25%)]	Loss: 0.712995
5809	Train Epoch: 82 [3000/8000 (38%)]	Loss: 0.628876
5810	Train Epoch: 82 [4000/8000 (50%)]	Loss: 0.674274
5811	Train Epoch: 82 [5000/8000 (62%)]	Loss: 1.013306
5812	Train Epoch: 82 [6000/8000 (75%)]	Loss: 0.752077

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5813 Train Epoch: 82 [7000/8000 (88%)] Loss: 0.728139
5814
5815 Test set: Avg. loss: 0.4788, Accuracy: 1711/2000 (85.550%)
5816
5817 New best test_loss: 0.47879669070243835!
5818 Train Epoch: 83 [0/8000 (0%)] Loss: 0.695961
5819 Train Epoch: 83 [1000/8000 (12%)] Loss: 0.672229
5820 Train Epoch: 83 [2000/8000 (25%)] Loss: 0.657312
5821 Train Epoch: 83 [3000/8000 (38%)] Loss: 0.867811
5822 Train Epoch: 83 [4000/8000 (50%)] Loss: 0.906209
5823 Train Epoch: 83 [5000/8000 (62%)] Loss: 0.741687
5824 Train Epoch: 83 [6000/8000 (75%)] Loss: 0.701952
5825 Train Epoch: 83 [7000/8000 (88%)] Loss: 0.719491
5826
5827 Test set: Avg. loss: 0.4920, Accuracy: 1701/2000 (85.050%)
5828
5829 Train Epoch: 84 [0/8000 (0%)] Loss: 0.724482
5830 Train Epoch: 84 [1000/8000 (12%)] Loss: 0.846564
5831 Train Epoch: 84 [2000/8000 (25%)] Loss: 0.593280
5832 Train Epoch: 84 [3000/8000 (38%)] Loss: 0.736480
5833 Train Epoch: 84 [4000/8000 (50%)] Loss: 0.732674
5834 Train Epoch: 84 [5000/8000 (62%)] Loss: 0.715445
5835 Train Epoch: 84 [6000/8000 (75%)] Loss: 0.656436
5836 Train Epoch: 84 [7000/8000 (88%)] Loss: 0.697847
5837
5838 Test set: Avg. loss: 0.4873, Accuracy: 1702/2000 (85.100%)
5839
5840 Train Epoch: 85 [0/8000 (0%)] Loss: 0.667518
5841 Train Epoch: 85 [1000/8000 (12%)] Loss: 0.853505
5842 Train Epoch: 85 [2000/8000 (25%)] Loss: 0.642377
5843 Train Epoch: 85 [3000/8000 (38%)] Loss: 0.783119
5844 Train Epoch: 85 [4000/8000 (50%)] Loss: 0.630122
5845 Train Epoch: 85 [5000/8000 (62%)] Loss: 0.771749
5846 Train Epoch: 85 [6000/8000 (75%)] Loss: 0.697154
5847 Train Epoch: 85 [7000/8000 (88%)] Loss: 0.901568
5848
5849 Test set: Avg. loss: 0.4810, Accuracy: 1713/2000 (85.650%)
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5850
5851 Train Epoch: 86 [0/8000 (0%)] Loss: 0.663005
5852 Train Epoch: 86 [1000/8000 (12%)] Loss: 0.665026
5853 Train Epoch: 86 [2000/8000 (25%)] Loss: 0.714160
5854 Train Epoch: 86 [3000/8000 (38%)] Loss: 0.821616
5855 Train Epoch: 86 [4000/8000 (50%)] Loss: 0.792075
5856 Train Epoch: 86 [5000/8000 (62%)] Loss: 0.828537
5857 Train Epoch: 86 [6000/8000 (75%)] Loss: 0.712157
5858 Train Epoch: 86 [7000/8000 (88%)] Loss: 0.679989
5859
5860 Test set: Avg. loss: 0.4754, Accuracy: 1715/2000 (85.750%)
5861
5862 New best test_loss: 0.4753949046134949!
5863 Train Epoch: 87 [0/8000 (0%)] Loss: 0.579030
5864 Train Epoch: 87 [1000/8000 (12%)] Loss: 0.677704
5865 Train Epoch: 87 [2000/8000 (25%)] Loss: 0.761894
5866 Train Epoch: 87 [3000/8000 (38%)] Loss: 0.964026
5867 Train Epoch: 87 [4000/8000 (50%)] Loss: 0.744191
5868 Train Epoch: 87 [5000/8000 (62%)] Loss: 0.742813
5869 Train Epoch: 87 [6000/8000 (75%)] Loss: 0.728598
5870 Train Epoch: 87 [7000/8000 (88%)] Loss: 0.728123
5871
5872 Test set: Avg. loss: 0.4931, Accuracy: 1681/2000 (84.050%)
5873
5874 Train Epoch: 88 [0/8000 (0%)] Loss: 0.626068
5875 Train Epoch: 88 [1000/8000 (12%)] Loss: 0.576173
5876 Train Epoch: 88 [2000/8000 (25%)] Loss: 0.704883
5877 Train Epoch: 88 [3000/8000 (38%)] Loss: 0.792989
5878 Train Epoch: 88 [4000/8000 (50%)] Loss: 0.694017
5879 Train Epoch: 88 [5000/8000 (62%)] Loss: 0.782627
5880 Train Epoch: 88 [6000/8000 (75%)] Loss: 0.632432
5881 Train Epoch: 88 [7000/8000 (88%)] Loss: 0.725155
5882
5883 Test set: Avg. loss: 0.4729, Accuracy: 1715/2000 (85.750%)
5884
5885 New best test_loss: 0.47290700674057007!
5886 Train Epoch: 89 [0/8000 (0%)] Loss: 0.630248
5887 Train Epoch: 89 [1000/8000 (12%)] Loss: 0.690715

5888	Train Epoch: 89	[2000/8000 (25%)]	Loss: 0.644859
5889	Train Epoch: 89	[3000/8000 (38%)]	Loss: 0.862418
5890	Train Epoch: 89	[4000/8000 (50%)]	Loss: 0.684426
5891	Train Epoch: 89	[5000/8000 (62%)]	Loss: 0.752620
5892	Train Epoch: 89	[6000/8000 (75%)]	Loss: 0.729134
5893	Train Epoch: 89	[7000/8000 (88%)]	Loss: 0.893272
5894			
5895	Test set:	Avg. loss: 0.4704, Accuracy: 1719/2000 (85.950%)	
5896			
5897	New best test_loss: 0.4703570306301117!		
5898	Train Epoch: 90	[0/8000 (0%)]	Loss: 0.635765
5899	Train Epoch: 90	[1000/8000 (12%)]	Loss: 0.642248
5900	Train Epoch: 90	[2000/8000 (25%)]	Loss: 0.560194
5901	Train Epoch: 90	[3000/8000 (38%)]	Loss: 0.731146
5902	Train Epoch: 90	[4000/8000 (50%)]	Loss: 0.859927
5903	Train Epoch: 90	[5000/8000 (62%)]	Loss: 0.850950
5904	Train Epoch: 90	[6000/8000 (75%)]	Loss: 0.566438
5905	Train Epoch: 90	[7000/8000 (88%)]	Loss: 0.624544
5906			
5907	Test set:	Avg. loss: 0.4726, Accuracy: 1688/2000 (84.400%)	
5908			
5909	Train Epoch: 91	[0/8000 (0%)]	Loss: 0.651692
5910	Train Epoch: 91	[1000/8000 (12%)]	Loss: 0.588023
5911	Train Epoch: 91	[2000/8000 (25%)]	Loss: 0.570727
5912	Train Epoch: 91	[3000/8000 (38%)]	Loss: 0.736435
5913	Train Epoch: 91	[4000/8000 (50%)]	Loss: 0.759115
5914	Train Epoch: 91	[5000/8000 (62%)]	Loss: 0.742256
5915	Train Epoch: 91	[6000/8000 (75%)]	Loss: 0.621694
5916	Train Epoch: 91	[7000/8000 (88%)]	Loss: 0.754486
5917			
5918	Test set:	Avg. loss: 0.4705, Accuracy: 1700/2000 (85.000%)	
5919			
5920	Train Epoch: 92	[0/8000 (0%)]	Loss: 0.655347
5921	Train Epoch: 92	[1000/8000 (12%)]	Loss: 0.740363
5922	Train Epoch: 92	[2000/8000 (25%)]	Loss: 0.673959
5923	Train Epoch: 92	[3000/8000 (38%)]	Loss: 0.836965
5924	Train Epoch: 92	[4000/8000 (50%)]	Loss: 0.562324
5925	Train Epoch: 92	[5000/8000 (62%)]	Loss: 0.695192

5926	Train Epoch: 92 [6000/8000 (75%)]	Loss: 0.693166
5927	Train Epoch: 92 [7000/8000 (88%)]	Loss: 0.731087
5928		
5929	Test set: Avg. loss: 0.4657, Accuracy: 1725/2000 (86.250%)	
5930		
5931	New best test_loss: 0.4657413959503174!	
5932	Train Epoch: 93 [0/8000 (0%)]	Loss: 0.651741
5933	Train Epoch: 93 [1000/8000 (12%)]	Loss: 0.737019
5934	Train Epoch: 93 [2000/8000 (25%)]	Loss: 0.649985
5935	Train Epoch: 93 [3000/8000 (38%)]	Loss: 0.748320
5936	Train Epoch: 93 [4000/8000 (50%)]	Loss: 0.593084
5937	Train Epoch: 93 [5000/8000 (62%)]	Loss: 0.829921
5938	Train Epoch: 93 [6000/8000 (75%)]	Loss: 0.609441
5939	Train Epoch: 93 [7000/8000 (88%)]	Loss: 0.873574
5940		
5941	Test set: Avg. loss: 0.4605, Accuracy: 1728/2000 (86.400%)	
5942		
5943	New best test_loss: 0.4604828953742981!	
5944	Train Epoch: 94 [0/8000 (0%)]	Loss: 0.691274
5945	Train Epoch: 94 [1000/8000 (12%)]	Loss: 0.605870
5946	Train Epoch: 94 [2000/8000 (25%)]	Loss: 0.691845
5947	Train Epoch: 94 [3000/8000 (38%)]	Loss: 0.790337
5948	Train Epoch: 94 [4000/8000 (50%)]	Loss: 0.678728
5949	Train Epoch: 94 [5000/8000 (62%)]	Loss: 0.623888
5950	Train Epoch: 94 [6000/8000 (75%)]	Loss: 0.729418
5951	Train Epoch: 94 [7000/8000 (88%)]	Loss: 0.689634
5952		
5953	Test set: Avg. loss: 0.4556, Accuracy: 1722/2000 (86.100%)	
5954		
5955	New best test_loss: 0.455614298582077!	
5956	Train Epoch: 95 [0/8000 (0%)]	Loss: 0.568628
5957	Train Epoch: 95 [1000/8000 (12%)]	Loss: 0.623220
5958	Train Epoch: 95 [2000/8000 (25%)]	Loss: 0.635982
5959	Train Epoch: 95 [3000/8000 (38%)]	Loss: 0.754106
5960	Train Epoch: 95 [4000/8000 (50%)]	Loss: 0.726362
5961	Train Epoch: 95 [5000/8000 (62%)]	Loss: 0.747459
5962	Train Epoch: 95 [6000/8000 (75%)]	Loss: 0.648213
5963	Train Epoch: 95 [7000/8000 (88%)]	Loss: 0.778656

5964
5965 Test set: Avg. loss: 0.4614, Accuracy: 1724/2000 (86.200%)
5966
5967 Train Epoch: 96 [0/8000 (0%)] Loss: 0.585045
5968 Train Epoch: 96 [1000/8000 (12%)] Loss: 0.728046
5969 Train Epoch: 96 [2000/8000 (25%)] Loss: 0.660503
5970 Train Epoch: 96 [3000/8000 (38%)] Loss: 0.803530
5971 Train Epoch: 96 [4000/8000 (50%)] Loss: 0.697663
5972 Train Epoch: 96 [5000/8000 (62%)] Loss: 0.673692
5973 Train Epoch: 96 [6000/8000 (75%)] Loss: 0.707851
5974 Train Epoch: 96 [7000/8000 (88%)] Loss: 0.756310
5975
5976 Test set: Avg. loss: 0.4638, Accuracy: 1710/2000 (85.500%)
5977
5978 Train Epoch: 97 [0/8000 (0%)] Loss: 0.681661
5979 Train Epoch: 97 [1000/8000 (12%)] Loss: 0.622016
5980 Train Epoch: 97 [2000/8000 (25%)] Loss: 0.762044
5981 Train Epoch: 97 [3000/8000 (38%)] Loss: 0.910495
5982 Train Epoch: 97 [4000/8000 (50%)] Loss: 0.657157
5983 Train Epoch: 97 [5000/8000 (62%)] Loss: 0.746520
5984 Train Epoch: 97 [6000/8000 (75%)] Loss: 0.691195
5985 Train Epoch: 97 [7000/8000 (88%)] Loss: 0.770497
5986
5987 Test set: Avg. loss: 0.4427, Accuracy: 1731/2000 (86.550%)
5988
5989 New best test_loss: 0.4426838159561157!
5990 Train Epoch: 98 [0/8000 (0%)] Loss: 0.545718
5991 Train Epoch: 98 [1000/8000 (12%)] Loss: 0.772382
5992 Train Epoch: 98 [2000/8000 (25%)] Loss: 0.741372
5993 Train Epoch: 98 [3000/8000 (38%)] Loss: 0.799308
5994 Train Epoch: 98 [4000/8000 (50%)] Loss: 0.654114
5995 Train Epoch: 98 [5000/8000 (62%)] Loss: 0.837921
5996 Train Epoch: 98 [6000/8000 (75%)] Loss: 0.677498
5997 Train Epoch: 98 [7000/8000 (88%)] Loss: 0.638098
5998
5999 Test set: Avg. loss: 0.4406, Accuracy: 1731/2000 (86.550%)
6000

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6001 New best test_loss: 0.44064396619796753!
6002 Train Epoch: 99 [0/8000 (0%)] Loss: 0.681576
6003 Train Epoch: 99 [1000/8000 (12%)] Loss: 0.531314
6004 Train Epoch: 99 [2000/8000 (25%)] Loss: 0.644822
6005 Train Epoch: 99 [3000/8000 (38%)] Loss: 0.767456
6006 Train Epoch: 99 [4000/8000 (50%)] Loss: 0.820294
6007 Train Epoch: 99 [5000/8000 (62%)] Loss: 0.758518
6008 Train Epoch: 99 [6000/8000 (75%)] Loss: 0.686770
6009 Train Epoch: 99 [7000/8000 (88%)] Loss: 0.712224
6010
6011 Test set: Avg. loss: 0.4454, Accuracy: 1738/2000 (86.900%)
6012
6013 Train Epoch: 100 [0/8000 (0%)] Loss: 0.614375
6014 Train Epoch: 100 [1000/8000 (12%)] Loss: 0.706651
6015 Train Epoch: 100 [2000/8000 (25%)] Loss: 0.706682
6016 Train Epoch: 100 [3000/8000 (38%)] Loss: 0.845862
6017 Train Epoch: 100 [4000/8000 (50%)] Loss: 0.662540
6018 Train Epoch: 100 [5000/8000 (62%)] Loss: 0.762775
6019 Train Epoch: 100 [6000/8000 (75%)] Loss: 0.684382
6020 Train Epoch: 100 [7000/8000 (88%)] Loss: 0.596817
6021
6022 Test set: Avg. loss: 0.4439, Accuracy: 1731/2000 (86.550%)
6023
6024 Train Epoch: 1 [0/8000 (0%)] Loss: 2.301291
6025 Train Epoch: 1 [1000/8000 (12%)] Loss: 2.298715
6026 Train Epoch: 1 [2000/8000 (25%)] Loss: 2.305437
6027 Train Epoch: 1 [3000/8000 (38%)] Loss: 2.309936
6028 Train Epoch: 1 [4000/8000 (50%)] Loss: 2.285310
6029 Train Epoch: 1 [5000/8000 (62%)] Loss: 2.310600
6030 Train Epoch: 1 [6000/8000 (75%)] Loss: 2.299271
6031 Train Epoch: 1 [7000/8000 (88%)] Loss: 2.296544
6032
6033 Test set: Avg. loss: 2.2940, Accuracy: 352/2000 (17.600%)
6034
6035 New best test_loss: 2.2940423488616943!
6036 Train Epoch: 2 [0/8000 (0%)] Loss: 2.291596
6037 Train Epoch: 2 [1000/8000 (12%)] Loss: 2.281248
6038 Train Epoch: 2 [2000/8000 (25%)] Loss: 2.296338
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6039	Train Epoch: 2	[3000/8000 (38%)]	Loss: 2.290689
6040	Train Epoch: 2	[4000/8000 (50%)]	Loss: 2.275500
6041	Train Epoch: 2	[5000/8000 (62%)]	Loss: 2.284161
6042	Train Epoch: 2	[6000/8000 (75%)]	Loss: 2.279955
6043	Train Epoch: 2	[7000/8000 (88%)]	Loss: 2.287626
6044			
6045	Test set:	Avg. loss: 2.2711, Accuracy: 571/2000 (28.550%)	
6046			
6047	New best test_loss:	2.271111249923706!	
6048	Train Epoch: 3	[0/8000 (0%)]	Loss: 2.272310
6049	Train Epoch: 3	[1000/8000 (12%)]	Loss: 2.265141
6050	Train Epoch: 3	[2000/8000 (25%)]	Loss: 2.278703
6051	Train Epoch: 3	[3000/8000 (38%)]	Loss: 2.258792
6052	Train Epoch: 3	[4000/8000 (50%)]	Loss: 2.249227
6053	Train Epoch: 3	[5000/8000 (62%)]	Loss: 2.229994
6054	Train Epoch: 3	[6000/8000 (75%)]	Loss: 2.217427
6055	Train Epoch: 3	[7000/8000 (88%)]	Loss: 2.226677
6056			
6057	Test set:	Avg. loss: 2.2006, Accuracy: 1113/2000 (55.650%)	
6058			
6059	New best test_loss:	2.200631856918335!	
6060	Train Epoch: 4	[0/8000 (0%)]	Loss: 2.232368
6061	Train Epoch: 4	[1000/8000 (12%)]	Loss: 2.205742
6062	Train Epoch: 4	[2000/8000 (25%)]	Loss: 2.181749
6063	Train Epoch: 4	[3000/8000 (38%)]	Loss: 2.178240
6064	Train Epoch: 4	[4000/8000 (50%)]	Loss: 2.135374
6065	Train Epoch: 4	[5000/8000 (62%)]	Loss: 2.095782
6066	Train Epoch: 4	[6000/8000 (75%)]	Loss: 2.083582
6067	Train Epoch: 4	[7000/8000 (88%)]	Loss: 2.040027
6068			
6069	Test set:	Avg. loss: 1.8796, Accuracy: 1269/2000 (63.450%)	
6070			
6071	New best test_loss:	1.8796367645263672!	
6072	Train Epoch: 5	[0/8000 (0%)]	Loss: 1.981681
6073	Train Epoch: 5	[1000/8000 (12%)]	Loss: 1.935758
6074	Train Epoch: 5	[2000/8000 (25%)]	Loss: 1.852210
6075	Train Epoch: 5	[3000/8000 (38%)]	Loss: 1.817795
6076	Train Epoch: 5	[4000/8000 (50%)]	Loss: 1.675553

6077	Train Epoch: 5 [5000/8000 (62%)]	Loss: 1.669539
6078	Train Epoch: 5 [6000/8000 (75%)]	Loss: 1.603355
6079	Train Epoch: 5 [7000/8000 (88%)]	Loss: 1.520285
6080		
6081	Test set: Avg. loss: 1.1745, Accuracy: 1498/2000 (74.900%)	
6082		
6083	New best test_loss: 1.1745191812515259!	
6084	Train Epoch: 6 [0/8000 (0%)]	Loss: 1.359581
6085	Train Epoch: 6 [1000/8000 (12%)]	Loss: 1.415907
6086	Train Epoch: 6 [2000/8000 (25%)]	Loss: 1.387843
6087	Train Epoch: 6 [3000/8000 (38%)]	Loss: 1.421305
6088	Train Epoch: 6 [4000/8000 (50%)]	Loss: 1.294966
6089	Train Epoch: 6 [5000/8000 (62%)]	Loss: 1.203469
6090	Train Epoch: 6 [6000/8000 (75%)]	Loss: 1.138849
6091	Train Epoch: 6 [7000/8000 (88%)]	Loss: 1.105675
6092		
6093	Test set: Avg. loss: 0.7745, Accuracy: 1629/2000 (81.450%)	
6094		
6095	New best test_loss: 0.7744659185409546!	
6096	Train Epoch: 7 [0/8000 (0%)]	Loss: 1.132277
6097	Train Epoch: 7 [1000/8000 (12%)]	Loss: 1.059874
6098	Train Epoch: 7 [2000/8000 (25%)]	Loss: 1.037146
6099	Train Epoch: 7 [3000/8000 (38%)]	Loss: 1.150043
6100	Train Epoch: 7 [4000/8000 (50%)]	Loss: 0.983218
6101	Train Epoch: 7 [5000/8000 (62%)]	Loss: 1.089231
6102	Train Epoch: 7 [6000/8000 (75%)]	Loss: 1.034185
6103	Train Epoch: 7 [7000/8000 (88%)]	Loss: 0.876433
6104		
6105	Test set: Avg. loss: 0.6409, Accuracy: 1661/2000 (83.050%)	
6106		
6107	New best test_loss: 0.6408787369728088!	
6108	Train Epoch: 8 [0/8000 (0%)]	Loss: 0.813963
6109	Train Epoch: 8 [1000/8000 (12%)]	Loss: 0.935456
6110	Train Epoch: 8 [2000/8000 (25%)]	Loss: 0.938140
6111	Train Epoch: 8 [3000/8000 (38%)]	Loss: 1.005945
6112	Train Epoch: 8 [4000/8000 (50%)]	Loss: 0.988326
6113	Train Epoch: 8 [5000/8000 (62%)]	Loss: 0.905134
6114	Train Epoch: 8 [6000/8000 (75%)]	Loss: 0.997116

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6115 Train Epoch: 8 [7000/8000 (88%)] Loss: 0.757606
6116
6117 Test set: Avg. loss: 0.5194, Accuracy: 1718/2000 (85.900%)
6118
6119 New best test_loss: 0.51944899559021!
6120 Train Epoch: 9 [0/8000 (0%)] Loss: 0.663232
6121 Train Epoch: 9 [1000/8000 (12%)] Loss: 0.803789
6122 Train Epoch: 9 [2000/8000 (25%)] Loss: 0.888038
6123 Train Epoch: 9 [3000/8000 (38%)] Loss: 0.815364
6124 Train Epoch: 9 [4000/8000 (50%)] Loss: 0.897471
6125 Train Epoch: 9 [5000/8000 (62%)] Loss: 0.814775
6126 Train Epoch: 9 [6000/8000 (75%)] Loss: 0.864371
6127 Train Epoch: 9 [7000/8000 (88%)] Loss: 0.682744
6128
6129 Test set: Avg. loss: 0.4670, Accuracy: 1765/2000 (88.250%)
6130
6131 New best test_loss: 0.4670349061489105!
6132 Train Epoch: 10 [0/8000 (0%)] Loss: 0.804580
6133 Train Epoch: 10 [1000/8000 (12%)] Loss: 0.734709
6134 Train Epoch: 10 [2000/8000 (25%)] Loss: 0.712228
6135 Train Epoch: 10 [3000/8000 (38%)] Loss: 0.860597
6136 Train Epoch: 10 [4000/8000 (50%)] Loss: 0.669898
6137 Train Epoch: 10 [5000/8000 (62%)] Loss: 0.736436
6138 Train Epoch: 10 [6000/8000 (75%)] Loss: 0.744484
6139 Train Epoch: 10 [7000/8000 (88%)] Loss: 0.775285
6140
6141 Test set: Avg. loss: 0.4240, Accuracy: 1780/2000 (89.000%)
6142
6143 New best test_loss: 0.42404845356941223!
6144 Train Epoch: 11 [0/8000 (0%)] Loss: 0.676875
6145 Train Epoch: 11 [1000/8000 (12%)] Loss: 0.868911
6146 Train Epoch: 11 [2000/8000 (25%)] Loss: 0.697716
6147 Train Epoch: 11 [3000/8000 (38%)] Loss: 0.711986
6148 Train Epoch: 11 [4000/8000 (50%)] Loss: 0.660756
6149 Train Epoch: 11 [5000/8000 (62%)] Loss: 0.743250
6150 Train Epoch: 11 [6000/8000 (75%)] Loss: 0.740917
6151 Train Epoch: 11 [7000/8000 (88%)] Loss: 0.628868
6152
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6153 Test set: Avg. loss: 0.3799, Accuracy: 1808/2000 (90.400%)
6154
6155 New best test_loss: 0.3799232244491577!
6156 Train Epoch: 12 [0/8000 (0%)] Loss: 0.658009
6157 Train Epoch: 12 [1000/8000 (12%)] Loss: 0.662311
6158 Train Epoch: 12 [2000/8000 (25%)] Loss: 0.687059
6159 Train Epoch: 12 [3000/8000 (38%)] Loss: 0.660425
6160 Train Epoch: 12 [4000/8000 (50%)] Loss: 0.734452
6161 Train Epoch: 12 [5000/8000 (62%)] Loss: 0.709682
6162 Train Epoch: 12 [6000/8000 (75%)] Loss: 0.709874
6163 Train Epoch: 12 [7000/8000 (88%)] Loss: 0.679082
6164
6165 Test set: Avg. loss: 0.3450, Accuracy: 1821/2000 (91.050%)
6166
6167 New best test_loss: 0.3449588418006897!
6168 Train Epoch: 13 [0/8000 (0%)] Loss: 0.550833
6169 Train Epoch: 13 [1000/8000 (12%)] Loss: 0.524016
6170 Train Epoch: 13 [2000/8000 (25%)] Loss: 0.659102
6171 Train Epoch: 13 [3000/8000 (38%)] Loss: 0.770677
6172 Train Epoch: 13 [4000/8000 (50%)] Loss: 0.489004
6173 Train Epoch: 13 [5000/8000 (62%)] Loss: 0.654699
6174 Train Epoch: 13 [6000/8000 (75%)] Loss: 0.638563
6175 Train Epoch: 13 [7000/8000 (88%)] Loss: 0.599153
6176
6177 Test set: Avg. loss: 0.3288, Accuracy: 1823/2000 (91.150%)
6178
6179 New best test_loss: 0.32878929376602173!
6180 Train Epoch: 14 [0/8000 (0%)] Loss: 0.481851
6181 Train Epoch: 14 [1000/8000 (12%)] Loss: 0.598379
6182 Train Epoch: 14 [2000/8000 (25%)] Loss: 0.645128
6183 Train Epoch: 14 [3000/8000 (38%)] Loss: 0.525631
6184 Train Epoch: 14 [4000/8000 (50%)] Loss: 0.703968
6185 Train Epoch: 14 [5000/8000 (62%)] Loss: 0.596276
6186 Train Epoch: 14 [6000/8000 (75%)] Loss: 0.593677
6187 Train Epoch: 14 [7000/8000 (88%)] Loss: 0.520655
6188
6189 Test set: Avg. loss: 0.3105, Accuracy: 1840/2000 (92.000%)
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6190
6191 New best test_loss: 0.3105151355266571!
6192 Train Epoch: 15 [0/8000 (0%)] Loss: 0.450798
6193 Train Epoch: 15 [1000/8000 (12%)] Loss: 0.591823
6194 Train Epoch: 15 [2000/8000 (25%)] Loss: 0.554868
6195 Train Epoch: 15 [3000/8000 (38%)] Loss: 0.477029
6196 Train Epoch: 15 [4000/8000 (50%)] Loss: 0.716412
6197 Train Epoch: 15 [5000/8000 (62%)] Loss: 0.621661
6198 Train Epoch: 15 [6000/8000 (75%)] Loss: 0.491065
6199 Train Epoch: 15 [7000/8000 (88%)] Loss: 0.647817
6200
6201 Test set: Avg. loss: 0.2812, Accuracy: 1857/2000 (92.850%)
6202
6203 New best test_loss: 0.2811880111694336!
6204 Train Epoch: 16 [0/8000 (0%)] Loss: 0.457036
6205 Train Epoch: 16 [1000/8000 (12%)] Loss: 0.485427
6206 Train Epoch: 16 [2000/8000 (25%)] Loss: 0.581462
6207 Train Epoch: 16 [3000/8000 (38%)] Loss: 0.616046
6208 Train Epoch: 16 [4000/8000 (50%)] Loss: 0.589456
6209 Train Epoch: 16 [5000/8000 (62%)] Loss: 0.463467
6210 Train Epoch: 16 [6000/8000 (75%)] Loss: 0.604950
6211 Train Epoch: 16 [7000/8000 (88%)] Loss: 0.512442
6212
6213 Test set: Avg. loss: 0.2627, Accuracy: 1866/2000 (93.300%)
6214
6215 New best test_loss: 0.2626537084579468!
6216 Train Epoch: 17 [0/8000 (0%)] Loss: 0.424191
6217 Train Epoch: 17 [1000/8000 (12%)] Loss: 0.446215
6218 Train Epoch: 17 [2000/8000 (25%)] Loss: 0.529778
6219 Train Epoch: 17 [3000/8000 (38%)] Loss: 0.555683
6220 Train Epoch: 17 [4000/8000 (50%)] Loss: 0.620031
6221 Train Epoch: 17 [5000/8000 (62%)] Loss: 0.570333
6222 Train Epoch: 17 [6000/8000 (75%)] Loss: 0.500203
6223 Train Epoch: 17 [7000/8000 (88%)] Loss: 0.575238
6224
6225 Test set: Avg. loss: 0.2610, Accuracy: 1871/2000 (93.550%)
6226
6227 New best test_loss: 0.2609984874725342!
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6228 Train Epoch: 18 [0/8000 (0%)] Loss: 0.426240
6229 Train Epoch: 18 [1000/8000 (12%)] Loss: 0.552833
6230 Train Epoch: 18 [2000/8000 (25%)] Loss: 0.394468
6231 Train Epoch: 18 [3000/8000 (38%)] Loss: 0.541215
6232 Train Epoch: 18 [4000/8000 (50%)] Loss: 0.576209
6233 Train Epoch: 18 [5000/8000 (62%)] Loss: 0.471669
6234 Train Epoch: 18 [6000/8000 (75%)] Loss: 0.513901
6235 Train Epoch: 18 [7000/8000 (88%)] Loss: 0.599695
6236
6237 Test set: Avg. loss: 0.2376, Accuracy: 1878/2000 (93.900%)
6238
6239 New best test_loss: 0.23755332827568054!
6240 Train Epoch: 19 [0/8000 (0%)] Loss: 0.381840
6241 Train Epoch: 19 [1000/8000 (12%)] Loss: 0.453993
6242 Train Epoch: 19 [2000/8000 (25%)] Loss: 0.375174
6243 Train Epoch: 19 [3000/8000 (38%)] Loss: 0.468801
6244 Train Epoch: 19 [4000/8000 (50%)] Loss: 0.729297
6245 Train Epoch: 19 [5000/8000 (62%)] Loss: 0.561049
6246 Train Epoch: 19 [6000/8000 (75%)] Loss: 0.508126
6247 Train Epoch: 19 [7000/8000 (88%)] Loss: 0.517293
6248
6249 Test set: Avg. loss: 0.2346, Accuracy: 1881/2000 (94.050%)
6250
6251 New best test_loss: 0.2345890998840332!
6252 Train Epoch: 20 [0/8000 (0%)] Loss: 0.436649
6253 Train Epoch: 20 [1000/8000 (12%)] Loss: 0.460454
6254 Train Epoch: 20 [2000/8000 (25%)] Loss: 0.402577
6255 Train Epoch: 20 [3000/8000 (38%)] Loss: 0.478521
6256 Train Epoch: 20 [4000/8000 (50%)] Loss: 0.558146
6257 Train Epoch: 20 [5000/8000 (62%)] Loss: 0.485220
6258 Train Epoch: 20 [6000/8000 (75%)] Loss: 0.342644
6259 Train Epoch: 20 [7000/8000 (88%)] Loss: 0.480277
6260
6261 Test set: Avg. loss: 0.2265, Accuracy: 1876/2000 (93.800%)
6262
6263 New best test_loss: 0.22647182643413544!
6264 Train Epoch: 21 [0/8000 (0%)] Loss: 0.351775
6265 Train Epoch: 21 [1000/8000 (12%)] Loss: 0.482214
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6266	Train Epoch: 21	[2000/8000 (25%)]	Loss: 0.500260
6267	Train Epoch: 21	[3000/8000 (38%)]	Loss: 0.386079
6268	Train Epoch: 21	[4000/8000 (50%)]	Loss: 0.395297
6269	Train Epoch: 21	[5000/8000 (62%)]	Loss: 0.434167
6270	Train Epoch: 21	[6000/8000 (75%)]	Loss: 0.386042
6271	Train Epoch: 21	[7000/8000 (88%)]	Loss: 0.583369
6272			
6273	Test set:	Avg. loss: 0.2217, Accuracy: 1881/2000 (94.050%)	
6274			
6275	New best test_loss:	0.22172625362873077!	
6276	Train Epoch: 22	[0/8000 (0%)]	Loss: 0.270383
6277	Train Epoch: 22	[1000/8000 (12%)]	Loss: 0.407520
6278	Train Epoch: 22	[2000/8000 (25%)]	Loss: 0.469365
6279	Train Epoch: 22	[3000/8000 (38%)]	Loss: 0.426155
6280	Train Epoch: 22	[4000/8000 (50%)]	Loss: 0.404331
6281	Train Epoch: 22	[5000/8000 (62%)]	Loss: 0.500404
6282	Train Epoch: 22	[6000/8000 (75%)]	Loss: 0.411055
6283	Train Epoch: 22	[7000/8000 (88%)]	Loss: 0.526270
6284			
6285	Test set:	Avg. loss: 0.2105, Accuracy: 1887/2000 (94.350%)	
6286			
6287	New best test_loss:	0.2105451077222824!	
6288	Train Epoch: 23	[0/8000 (0%)]	Loss: 0.343963
6289	Train Epoch: 23	[1000/8000 (12%)]	Loss: 0.386510
6290	Train Epoch: 23	[2000/8000 (25%)]	Loss: 0.452488
6291	Train Epoch: 23	[3000/8000 (38%)]	Loss: 0.547245
6292	Train Epoch: 23	[4000/8000 (50%)]	Loss: 0.503993
6293	Train Epoch: 23	[5000/8000 (62%)]	Loss: 0.460868
6294	Train Epoch: 23	[6000/8000 (75%)]	Loss: 0.377042
6295	Train Epoch: 23	[7000/8000 (88%)]	Loss: 0.362980
6296			
6297	Test set:	Avg. loss: 0.2009, Accuracy: 1892/2000 (94.600%)	
6298			
6299	New best test_loss:	0.20091186463832855!	
6300	Train Epoch: 24	[0/8000 (0%)]	Loss: 0.215353
6301	Train Epoch: 24	[1000/8000 (12%)]	Loss: 0.439769
6302	Train Epoch: 24	[2000/8000 (25%)]	Loss: 0.430440
6303	Train Epoch: 24	[3000/8000 (38%)]	Loss: 0.462736

6304	Train Epoch: 24	[4000/8000 (50%)]	Loss: 0.388438
6305	Train Epoch: 24	[5000/8000 (62%)]	Loss: 0.460224
6306	Train Epoch: 24	[6000/8000 (75%)]	Loss: 0.332425
6307	Train Epoch: 24	[7000/8000 (88%)]	Loss: 0.468235
6308			
6309	Test set:	Avg. loss: 0.1973, Accuracy: 1891/2000 (94.550%)	
6310			
6311	New best test_loss:	0.19729815423488617!	
6312	Train Epoch: 25	[0/8000 (0%)]	Loss: 0.349289
6313	Train Epoch: 25	[1000/8000 (12%)]	Loss: 0.337971
6314	Train Epoch: 25	[2000/8000 (25%)]	Loss: 0.437944
6315	Train Epoch: 25	[3000/8000 (38%)]	Loss: 0.472351
6316	Train Epoch: 25	[4000/8000 (50%)]	Loss: 0.469446
6317	Train Epoch: 25	[5000/8000 (62%)]	Loss: 0.501630
6318	Train Epoch: 25	[6000/8000 (75%)]	Loss: 0.420736
6319	Train Epoch: 25	[7000/8000 (88%)]	Loss: 0.521935
6320			
6321	Test set:	Avg. loss: 0.1932, Accuracy: 1895/2000 (94.750%)	
6322			
6323	New best test_loss:	0.19316640496253967!	
6324	Train Epoch: 26	[0/8000 (0%)]	Loss: 0.296791
6325	Train Epoch: 26	[1000/8000 (12%)]	Loss: 0.308245
6326	Train Epoch: 26	[2000/8000 (25%)]	Loss: 0.376853
6327	Train Epoch: 26	[3000/8000 (38%)]	Loss: 0.504952
6328	Train Epoch: 26	[4000/8000 (50%)]	Loss: 0.490618
6329	Train Epoch: 26	[5000/8000 (62%)]	Loss: 0.460521
6330	Train Epoch: 26	[6000/8000 (75%)]	Loss: 0.338026
6331	Train Epoch: 26	[7000/8000 (88%)]	Loss: 0.399572
6332			
6333	Test set:	Avg. loss: 0.1897, Accuracy: 1897/2000 (94.850%)	
6334			
6335	New best test_loss:	0.1896904855966568!	
6336	Train Epoch: 27	[0/8000 (0%)]	Loss: 0.417472
6337	Train Epoch: 27	[1000/8000 (12%)]	Loss: 0.307335
6338	Train Epoch: 27	[2000/8000 (25%)]	Loss: 0.379853
6339	Train Epoch: 27	[3000/8000 (38%)]	Loss: 0.513179
6340	Train Epoch: 27	[4000/8000 (50%)]	Loss: 0.381533
6341	Train Epoch: 27	[5000/8000 (62%)]	Loss: 0.407804

6342	Train Epoch: 27 [6000/8000 (75%)]	Loss: 0.359736
6343	Train Epoch: 27 [7000/8000 (88%)]	Loss: 0.431823
6344		
6345	Test set: Avg. loss: 0.1789, Accuracy: 1896/2000 (94.800%)	
6346		
6347	New best test_loss: 0.17885668575763702!	
6348	Train Epoch: 28 [0/8000 (0%)]	Loss: 0.340983
6349	Train Epoch: 28 [1000/8000 (12%)]	Loss: 0.314942
6350	Train Epoch: 28 [2000/8000 (25%)]	Loss: 0.412866
6351	Train Epoch: 28 [3000/8000 (38%)]	Loss: 0.358039
6352	Train Epoch: 28 [4000/8000 (50%)]	Loss: 0.297210
6353	Train Epoch: 28 [5000/8000 (62%)]	Loss: 0.500048
6354	Train Epoch: 28 [6000/8000 (75%)]	Loss: 0.430423
6355	Train Epoch: 28 [7000/8000 (88%)]	Loss: 0.426659
6356		
6357	Test set: Avg. loss: 0.1728, Accuracy: 1899/2000 (94.950%)	
6358		
6359	New best test_loss: 0.17284627258777618!	
6360	Train Epoch: 29 [0/8000 (0%)]	Loss: 0.360360
6361	Train Epoch: 29 [1000/8000 (12%)]	Loss: 0.293179
6362	Train Epoch: 29 [2000/8000 (25%)]	Loss: 0.484309
6363	Train Epoch: 29 [3000/8000 (38%)]	Loss: 0.374563
6364	Train Epoch: 29 [4000/8000 (50%)]	Loss: 0.499907
6365	Train Epoch: 29 [5000/8000 (62%)]	Loss: 0.332321
6366	Train Epoch: 29 [6000/8000 (75%)]	Loss: 0.408263
6367	Train Epoch: 29 [7000/8000 (88%)]	Loss: 0.265459
6368		
6369	Test set: Avg. loss: 0.1671, Accuracy: 1908/2000 (95.400%)	
6370		
6371	New best test_loss: 0.16707992553710938!	
6372	Train Epoch: 30 [0/8000 (0%)]	Loss: 0.302471
6373	Train Epoch: 30 [1000/8000 (12%)]	Loss: 0.323346
6374	Train Epoch: 30 [2000/8000 (25%)]	Loss: 0.407654
6375	Train Epoch: 30 [3000/8000 (38%)]	Loss: 0.356893
6376	Train Epoch: 30 [4000/8000 (50%)]	Loss: 0.376069
6377	Train Epoch: 30 [5000/8000 (62%)]	Loss: 0.346089
6378	Train Epoch: 30 [6000/8000 (75%)]	Loss: 0.391452
6379	Train Epoch: 30 [7000/8000 (88%)]	Loss: 0.403277

```
6380
6381 Test set: Avg. loss: 0.1648, Accuracy: 1905/2000 (
    95.250%)
6382
6383 New best test_loss: 0.16479390859603882!
6384 Train Epoch: 31 [0/8000 (0%)] Loss: 0.297167
6385 Train Epoch: 31 [1000/8000 (12%)] Loss: 0.298587
6386 Train Epoch: 31 [2000/8000 (25%)] Loss: 0.383858
6387 Train Epoch: 31 [3000/8000 (38%)] Loss: 0.224790
6388 Train Epoch: 31 [4000/8000 (50%)] Loss: 0.337626
6389 Train Epoch: 31 [5000/8000 (62%)] Loss: 0.477520
6390 Train Epoch: 31 [6000/8000 (75%)] Loss: 0.233741
6391 Train Epoch: 31 [7000/8000 (88%)] Loss: 0.457187
6392
6393 Test set: Avg. loss: 0.1625, Accuracy: 1904/2000 (
    95.200%)
6394
6395 New best test_loss: 0.16254651546478271!
6396 Train Epoch: 32 [0/8000 (0%)] Loss: 0.313071
6397 Train Epoch: 32 [1000/8000 (12%)] Loss: 0.332996
6398 Train Epoch: 32 [2000/8000 (25%)] Loss: 0.389685
6399 Train Epoch: 32 [3000/8000 (38%)] Loss: 0.308551
6400 Train Epoch: 32 [4000/8000 (50%)] Loss: 0.457437
6401 Train Epoch: 32 [5000/8000 (62%)] Loss: 0.444325
6402 Train Epoch: 32 [6000/8000 (75%)] Loss: 0.429192
6403 Train Epoch: 32 [7000/8000 (88%)] Loss: 0.442915
6404
6405 Test set: Avg. loss: 0.1603, Accuracy: 1907/2000 (
    95.350%)
6406
6407 New best test_loss: 0.16032975912094116!
6408 Train Epoch: 33 [0/8000 (0%)] Loss: 0.266828
6409 Train Epoch: 33 [1000/8000 (12%)] Loss: 0.346335
6410 Train Epoch: 33 [2000/8000 (25%)] Loss: 0.366634
6411 Train Epoch: 33 [3000/8000 (38%)] Loss: 0.343738
6412 Train Epoch: 33 [4000/8000 (50%)] Loss: 0.316811
6413 Train Epoch: 33 [5000/8000 (62%)] Loss: 0.393461
6414 Train Epoch: 33 [6000/8000 (75%)] Loss: 0.276468
6415 Train Epoch: 33 [7000/8000 (88%)] Loss: 0.409147
6416
6417 Test set: Avg. loss: 0.1578, Accuracy: 1911/2000 (
```

```
6417 95.550%)  
6418  
6419 New best test_loss: 0.15776391327381134!  
6420 Train Epoch: 34 [0/8000 (0%)] Loss: 0.298740  
6421 Train Epoch: 34 [1000/8000 (12%)] Loss: 0.241042  
6422 Train Epoch: 34 [2000/8000 (25%)] Loss: 0.379032  
6423 Train Epoch: 34 [3000/8000 (38%)] Loss: 0.407445  
6424 Train Epoch: 34 [4000/8000 (50%)] Loss: 0.530683  
6425 Train Epoch: 34 [5000/8000 (62%)] Loss: 0.355488  
6426 Train Epoch: 34 [6000/8000 (75%)] Loss: 0.301432  
6427 Train Epoch: 34 [7000/8000 (88%)] Loss: 0.419080  
6428  
6429 Test set: Avg. loss: 0.1509, Accuracy: 1916/2000 (95.800%)  
6430  
6431 New best test_loss: 0.15093806385993958!  
6432 Train Epoch: 35 [0/8000 (0%)] Loss: 0.253539  
6433 Train Epoch: 35 [1000/8000 (12%)] Loss: 0.268674  
6434 Train Epoch: 35 [2000/8000 (25%)] Loss: 0.372821  
6435 Train Epoch: 35 [3000/8000 (38%)] Loss: 0.268184  
6436 Train Epoch: 35 [4000/8000 (50%)] Loss: 0.381164  
6437 Train Epoch: 35 [5000/8000 (62%)] Loss: 0.417432  
6438 Train Epoch: 35 [6000/8000 (75%)] Loss: 0.244411  
6439 Train Epoch: 35 [7000/8000 (88%)] Loss: 0.373932  
6440  
6441 Test set: Avg. loss: 0.1487, Accuracy: 1912/2000 (95.600%)  
6442  
6443 New best test_loss: 0.1487189382314682!  
6444 Train Epoch: 36 [0/8000 (0%)] Loss: 0.235910  
6445 Train Epoch: 36 [1000/8000 (12%)] Loss: 0.215680  
6446 Train Epoch: 36 [2000/8000 (25%)] Loss: 0.369303  
6447 Train Epoch: 36 [3000/8000 (38%)] Loss: 0.291773  
6448 Train Epoch: 36 [4000/8000 (50%)] Loss: 0.286340  
6449 Train Epoch: 36 [5000/8000 (62%)] Loss: 0.409462  
6450 Train Epoch: 36 [6000/8000 (75%)] Loss: 0.243769  
6451 Train Epoch: 36 [7000/8000 (88%)] Loss: 0.352352  
6452  
6453 Test set: Avg. loss: 0.1480, Accuracy: 1917/2000 (95.850%)  
6454
```

```
6455 New best test_loss: 0.14795413613319397!
6456 Train Epoch: 37 [0/8000 (0%)] Loss: 0.211515
6457 Train Epoch: 37 [1000/8000 (12%)] Loss: 0.270946
6458 Train Epoch: 37 [2000/8000 (25%)] Loss: 0.258325
6459 Train Epoch: 37 [3000/8000 (38%)] Loss: 0.335195
6460 Train Epoch: 37 [4000/8000 (50%)] Loss: 0.412413
6461 Train Epoch: 37 [5000/8000 (62%)] Loss: 0.345588
6462 Train Epoch: 37 [6000/8000 (75%)] Loss: 0.295466
6463 Train Epoch: 37 [7000/8000 (88%)] Loss: 0.342645
6464
6465 Test set: Avg. loss: 0.1447, Accuracy: 1917/2000 (95.850%)
6466
6467 New best test_loss: 0.1447170078754425!
6468 Train Epoch: 38 [0/8000 (0%)] Loss: 0.244241
6469 Train Epoch: 38 [1000/8000 (12%)] Loss: 0.258652
6470 Train Epoch: 38 [2000/8000 (25%)] Loss: 0.390451
6471 Train Epoch: 38 [3000/8000 (38%)] Loss: 0.245282
6472 Train Epoch: 38 [4000/8000 (50%)] Loss: 0.309104
6473 Train Epoch: 38 [5000/8000 (62%)] Loss: 0.256043
6474 Train Epoch: 38 [6000/8000 (75%)] Loss: 0.289376
6475 Train Epoch: 38 [7000/8000 (88%)] Loss: 0.349774
6476
6477 Test set: Avg. loss: 0.1407, Accuracy: 1921/2000 (96.050%)
6478
6479 New best test_loss: 0.14067021012306213!
6480 Train Epoch: 39 [0/8000 (0%)] Loss: 0.257142
6481 Train Epoch: 39 [1000/8000 (12%)] Loss: 0.256652
6482 Train Epoch: 39 [2000/8000 (25%)] Loss: 0.559640
6483 Train Epoch: 39 [3000/8000 (38%)] Loss: 0.294808
6484 Train Epoch: 39 [4000/8000 (50%)] Loss: 0.351797
6485 Train Epoch: 39 [5000/8000 (62%)] Loss: 0.398822
6486 Train Epoch: 39 [6000/8000 (75%)] Loss: 0.412539
6487 Train Epoch: 39 [7000/8000 (88%)] Loss: 0.454359
6488
6489 Test set: Avg. loss: 0.1401, Accuracy: 1922/2000 (96.100%)
6490
6491 New best test_loss: 0.14007574319839478!
6492 Train Epoch: 40 [0/8000 (0%)] Loss: 0.224276
```

6493	Train Epoch: 40	[1000/8000 (12%)]	Loss: 0.267922
6494	Train Epoch: 40	[2000/8000 (25%)]	Loss: 0.379311
6495	Train Epoch: 40	[3000/8000 (38%)]	Loss: 0.352979
6496	Train Epoch: 40	[4000/8000 (50%)]	Loss: 0.307683
6497	Train Epoch: 40	[5000/8000 (62%)]	Loss: 0.380547
6498	Train Epoch: 40	[6000/8000 (75%)]	Loss: 0.311093
6499	Train Epoch: 40	[7000/8000 (88%)]	Loss: 0.324294
6500			
6501	Test set: Avg. loss: 0.1329, Accuracy: 1925/2000 (96.250%)		
6502			
6503	New best test_loss: 0.13291285932064056!		
6504	Train Epoch: 41	[0/8000 (0%)]	Loss: 0.222081
6505	Train Epoch: 41	[1000/8000 (12%)]	Loss: 0.254292
6506	Train Epoch: 41	[2000/8000 (25%)]	Loss: 0.444722
6507	Train Epoch: 41	[3000/8000 (38%)]	Loss: 0.320812
6508	Train Epoch: 41	[4000/8000 (50%)]	Loss: 0.305625
6509	Train Epoch: 41	[5000/8000 (62%)]	Loss: 0.290720
6510	Train Epoch: 41	[6000/8000 (75%)]	Loss: 0.250979
6511	Train Epoch: 41	[7000/8000 (88%)]	Loss: 0.358616
6512			
6513	Test set: Avg. loss: 0.1373, Accuracy: 1925/2000 (96.250%)		
6514			
6515	Train Epoch: 42	[0/8000 (0%)]	Loss: 0.164547
6516	Train Epoch: 42	[1000/8000 (12%)]	Loss: 0.354308
6517	Train Epoch: 42	[2000/8000 (25%)]	Loss: 0.367432
6518	Train Epoch: 42	[3000/8000 (38%)]	Loss: 0.240745
6519	Train Epoch: 42	[4000/8000 (50%)]	Loss: 0.408231
6520	Train Epoch: 42	[5000/8000 (62%)]	Loss: 0.366269
6521	Train Epoch: 42	[6000/8000 (75%)]	Loss: 0.219531
6522	Train Epoch: 42	[7000/8000 (88%)]	Loss: 0.420083
6523			
6524	Test set: Avg. loss: 0.1311, Accuracy: 1928/2000 (96.400%)		
6525			
6526	New best test_loss: 0.13111689686775208!		
6527	Train Epoch: 43	[0/8000 (0%)]	Loss: 0.244652
6528	Train Epoch: 43	[1000/8000 (12%)]	Loss: 0.284905
6529	Train Epoch: 43	[2000/8000 (25%)]	Loss: 0.336991
6530	Train Epoch: 43	[3000/8000 (38%)]	Loss: 0.298314

6531	Train Epoch: 43	[4000/8000 (50%)]	Loss: 0.383714
6532	Train Epoch: 43	[5000/8000 (62%)]	Loss: 0.350373
6533	Train Epoch: 43	[6000/8000 (75%)]	Loss: 0.274445
6534	Train Epoch: 43	[7000/8000 (88%)]	Loss: 0.305521
6535			
6536	Test set:	Avg. loss: 0.1292, Accuracy: 1931/2000 (96.550%)	
6537			
6538	New best test_loss:	0.12921006977558136!	
6539	Train Epoch: 44	[0/8000 (0%)]	Loss: 0.278967
6540	Train Epoch: 44	[1000/8000 (12%)]	Loss: 0.295301
6541	Train Epoch: 44	[2000/8000 (25%)]	Loss: 0.342605
6542	Train Epoch: 44	[3000/8000 (38%)]	Loss: 0.281488
6543	Train Epoch: 44	[4000/8000 (50%)]	Loss: 0.333389
6544	Train Epoch: 44	[5000/8000 (62%)]	Loss: 0.270832
6545	Train Epoch: 44	[6000/8000 (75%)]	Loss: 0.228596
6546	Train Epoch: 44	[7000/8000 (88%)]	Loss: 0.329324
6547			
6548	Test set:	Avg. loss: 0.1292, Accuracy: 1929/2000 (96.450%)	
6549			
6550	Train Epoch: 45	[0/8000 (0%)]	Loss: 0.210586
6551	Train Epoch: 45	[1000/8000 (12%)]	Loss: 0.293240
6552	Train Epoch: 45	[2000/8000 (25%)]	Loss: 0.253959
6553	Train Epoch: 45	[3000/8000 (38%)]	Loss: 0.235989
6554	Train Epoch: 45	[4000/8000 (50%)]	Loss: 0.296692
6555	Train Epoch: 45	[5000/8000 (62%)]	Loss: 0.373871
6556	Train Epoch: 45	[6000/8000 (75%)]	Loss: 0.294971
6557	Train Epoch: 45	[7000/8000 (88%)]	Loss: 0.372530
6558			
6559	Test set:	Avg. loss: 0.1281, Accuracy: 1930/2000 (96.500%)	
6560			
6561	New best test_loss:	0.12808962166309357!	
6562	Train Epoch: 46	[0/8000 (0%)]	Loss: 0.218481
6563	Train Epoch: 46	[1000/8000 (12%)]	Loss: 0.234609
6564	Train Epoch: 46	[2000/8000 (25%)]	Loss: 0.271704
6565	Train Epoch: 46	[3000/8000 (38%)]	Loss: 0.243197
6566	Train Epoch: 46	[4000/8000 (50%)]	Loss: 0.361954
6567	Train Epoch: 46	[5000/8000 (62%)]	Loss: 0.334046
6568	Train Epoch: 46	[6000/8000 (75%)]	Loss: 0.259364

```
6569 Train Epoch: 46 [7000/8000 (88%)] Loss: 0.312977
6570
6571 Test set: Avg. loss: 0.1270, Accuracy: 1932/2000 (96.600%)
6572
6573 New best test_loss: 0.12695081532001495!
6574 Train Epoch: 47 [0/8000 (0%)] Loss: 0.246423
6575 Train Epoch: 47 [1000/8000 (12%)] Loss: 0.260577
6576 Train Epoch: 47 [2000/8000 (25%)] Loss: 0.409429
6577 Train Epoch: 47 [3000/8000 (38%)] Loss: 0.267057
6578 Train Epoch: 47 [4000/8000 (50%)] Loss: 0.432027
6579 Train Epoch: 47 [5000/8000 (62%)] Loss: 0.371024
6580 Train Epoch: 47 [6000/8000 (75%)] Loss: 0.233885
6581 Train Epoch: 47 [7000/8000 (88%)] Loss: 0.312232
6582
6583 Test set: Avg. loss: 0.1192, Accuracy: 1931/2000 (96.550%)
6584
6585 New best test_loss: 0.11924078315496445!
6586 Train Epoch: 48 [0/8000 (0%)] Loss: 0.196964
6587 Train Epoch: 48 [1000/8000 (12%)] Loss: 0.240432
6588 Train Epoch: 48 [2000/8000 (25%)] Loss: 0.229334
6589 Train Epoch: 48 [3000/8000 (38%)] Loss: 0.249178
6590 Train Epoch: 48 [4000/8000 (50%)] Loss: 0.334704
6591 Train Epoch: 48 [5000/8000 (62%)] Loss: 0.326410
6592 Train Epoch: 48 [6000/8000 (75%)] Loss: 0.295857
6593 Train Epoch: 48 [7000/8000 (88%)] Loss: 0.303576
6594
6595 Test set: Avg. loss: 0.1236, Accuracy: 1928/2000 (96.400%)
6596
6597 Train Epoch: 49 [0/8000 (0%)] Loss: 0.212200
6598 Train Epoch: 49 [1000/8000 (12%)] Loss: 0.202484
6599 Train Epoch: 49 [2000/8000 (25%)] Loss: 0.336746
6600 Train Epoch: 49 [3000/8000 (38%)] Loss: 0.295305
6601 Train Epoch: 49 [4000/8000 (50%)] Loss: 0.273305
6602 Train Epoch: 49 [5000/8000 (62%)] Loss: 0.446104
6603 Train Epoch: 49 [6000/8000 (75%)] Loss: 0.344045
6604 Train Epoch: 49 [7000/8000 (88%)] Loss: 0.380440
6605
6606 Test set: Avg. loss: 0.1212, Accuracy: 1934/2000 (
```

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6606 96.700%)  
6607  
6608 Train Epoch: 50 [0/8000 (0%)] Loss: 0.173103  
6609 Train Epoch: 50 [1000/8000 (12%)] Loss: 0.316528  
6610 Train Epoch: 50 [2000/8000 (25%)] Loss: 0.288499  
6611 Train Epoch: 50 [3000/8000 (38%)] Loss: 0.150991  
6612 Train Epoch: 50 [4000/8000 (50%)] Loss: 0.379472  
6613 Train Epoch: 50 [5000/8000 (62%)] Loss: 0.329632  
6614 Train Epoch: 50 [6000/8000 (75%)] Loss: 0.249952  
6615 Train Epoch: 50 [7000/8000 (88%)] Loss: 0.402806  
6616  
6617 Test set: Avg. loss: 0.1219, Accuracy: 1928/2000 (96.400%)  
6618  
6619 Train Epoch: 51 [0/8000 (0%)] Loss: 0.227044  
6620 Train Epoch: 51 [1000/8000 (12%)] Loss: 0.289216  
6621 Train Epoch: 51 [2000/8000 (25%)] Loss: 0.227531  
6622 Train Epoch: 51 [3000/8000 (38%)] Loss: 0.261117  
6623 Train Epoch: 51 [4000/8000 (50%)] Loss: 0.398776  
6624 Train Epoch: 51 [5000/8000 (62%)] Loss: 0.399478  
6625 Train Epoch: 51 [6000/8000 (75%)] Loss: 0.192440  
6626 Train Epoch: 51 [7000/8000 (88%)] Loss: 0.347507  
6627  
6628 Test set: Avg. loss: 0.1212, Accuracy: 1929/2000 (96.450%)  
6629  
6630 Train Epoch: 52 [0/8000 (0%)] Loss: 0.234386  
6631 Train Epoch: 52 [1000/8000 (12%)] Loss: 0.326091  
6632 Train Epoch: 52 [2000/8000 (25%)] Loss: 0.351967  
6633 Train Epoch: 52 [3000/8000 (38%)] Loss: 0.258358  
6634 Train Epoch: 52 [4000/8000 (50%)] Loss: 0.378212  
6635 Train Epoch: 52 [5000/8000 (62%)] Loss: 0.294612  
6636 Train Epoch: 52 [6000/8000 (75%)] Loss: 0.287564  
6637 Train Epoch: 52 [7000/8000 (88%)] Loss: 0.310974  
6638  
6639 Test set: Avg. loss: 0.1215, Accuracy: 1929/2000 (96.450%)  
6640  
6641 Patience exceeded, concluding training after epoch 52  
6642 Train Epoch: 1 [0/8000 (0%)] Loss: 2.312490
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6643	Train Epoch: 1	[1000/8000 (12%)]	Loss: 2.306035
6644	Train Epoch: 1	[2000/8000 (25%)]	Loss: 2.308823
6645	Train Epoch: 1	[3000/8000 (38%)]	Loss: 2.302083
6646	Train Epoch: 1	[4000/8000 (50%)]	Loss: 2.290694
6647	Train Epoch: 1	[5000/8000 (62%)]	Loss: 2.298613
6648	Train Epoch: 1	[6000/8000 (75%)]	Loss: 2.299883
6649	Train Epoch: 1	[7000/8000 (88%)]	Loss: 2.307751
6650			
6651	Test set:	Avg. loss: 2.2881, Accuracy: 216/2000 (10.800%)	
6652			
6653	New best test_loss:	2.288088798522949!	
6654	Train Epoch: 2	[0/8000 (0%)]	Loss: 2.297807
6655	Train Epoch: 2	[1000/8000 (12%)]	Loss: 2.301849
6656	Train Epoch: 2	[2000/8000 (25%)]	Loss: 2.274460
6657	Train Epoch: 2	[3000/8000 (38%)]	Loss: 2.285405
6658	Train Epoch: 2	[4000/8000 (50%)]	Loss: 2.276738
6659	Train Epoch: 2	[5000/8000 (62%)]	Loss: 2.279155
6660	Train Epoch: 2	[6000/8000 (75%)]	Loss: 2.285028
6661	Train Epoch: 2	[7000/8000 (88%)]	Loss: 2.268677
6662			
6663	Test set:	Avg. loss: 2.2615, Accuracy: 355/2000 (17.750%)	
6664			
6665	New best test_loss:	2.261458396911621!	
6666	Train Epoch: 3	[0/8000 (0%)]	Loss: 2.256917
6667	Train Epoch: 3	[1000/8000 (12%)]	Loss: 2.270085
6668	Train Epoch: 3	[2000/8000 (25%)]	Loss: 2.241476
6669	Train Epoch: 3	[3000/8000 (38%)]	Loss: 2.250857
6670	Train Epoch: 3	[4000/8000 (50%)]	Loss: 2.239287
6671	Train Epoch: 3	[5000/8000 (62%)]	Loss: 2.224560
6672	Train Epoch: 3	[6000/8000 (75%)]	Loss: 2.235417
6673	Train Epoch: 3	[7000/8000 (88%)]	Loss: 2.228688
6674			
6675	Test set:	Avg. loss: 2.1829, Accuracy: 751/2000 (37.550%)	
6676			
6677	New best test_loss:	2.1829066276550293!	
6678	Train Epoch: 4	[0/8000 (0%)]	Loss: 2.227089
6679	Train Epoch: 4	[1000/8000 (12%)]	Loss: 2.141988
6680	Train Epoch: 4	[2000/8000 (25%)]	Loss: 2.104180

6681	Train Epoch: 4 [3000/8000 (38%)]	Loss: 2.105443
6682	Train Epoch: 4 [4000/8000 (50%)]	Loss: 2.065807
6683	Train Epoch: 4 [5000/8000 (62%)]	Loss: 2.061768
6684	Train Epoch: 4 [6000/8000 (75%)]	Loss: 2.108910
6685	Train Epoch: 4 [7000/8000 (88%)]	Loss: 2.043973
6686		
6687	Test set: Avg. loss: 1.8827, Accuracy: 905/2000 (45.250%)	
6688		
6689	New best test_loss: 1.8827381134033203!	
6690	Train Epoch: 5 [0/8000 (0%)]	Loss: 1.986944
6691	Train Epoch: 5 [1000/8000 (12%)]	Loss: 1.940970
6692	Train Epoch: 5 [2000/8000 (25%)]	Loss: 1.804250
6693	Train Epoch: 5 [3000/8000 (38%)]	Loss: 1.823266
6694	Train Epoch: 5 [4000/8000 (50%)]	Loss: 1.747998
6695	Train Epoch: 5 [5000/8000 (62%)]	Loss: 1.701093
6696	Train Epoch: 5 [6000/8000 (75%)]	Loss: 1.767441
6697	Train Epoch: 5 [7000/8000 (88%)]	Loss: 1.671965
6698		
6699	Test set: Avg. loss: 1.3584, Accuracy: 1265/2000 (63.250%)	
6700		
6701	New best test_loss: 1.358413577079773!	
6702	Train Epoch: 6 [0/8000 (0%)]	Loss: 1.576647
6703	Train Epoch: 6 [1000/8000 (12%)]	Loss: 1.568392
6704	Train Epoch: 6 [2000/8000 (25%)]	Loss: 1.338928
6705	Train Epoch: 6 [3000/8000 (38%)]	Loss: 1.430132
6706	Train Epoch: 6 [4000/8000 (50%)]	Loss: 1.378489
6707	Train Epoch: 6 [5000/8000 (62%)]	Loss: 1.432425
6708	Train Epoch: 6 [6000/8000 (75%)]	Loss: 1.388803
6709	Train Epoch: 6 [7000/8000 (88%)]	Loss: 1.103653
6710		
6711	Test set: Avg. loss: 0.8909, Accuracy: 1573/2000 (78.650%)	
6712		
6713	New best test_loss: 0.8909246325492859!	
6714	Train Epoch: 7 [0/8000 (0%)]	Loss: 1.092542
6715	Train Epoch: 7 [1000/8000 (12%)]	Loss: 1.130645
6716	Train Epoch: 7 [2000/8000 (25%)]	Loss: 1.032900
6717	Train Epoch: 7 [3000/8000 (38%)]	Loss: 1.139446
6718	Train Epoch: 7 [4000/8000 (50%)]	Loss: 1.102969

6719	Train Epoch: 7 [5000/8000 (62%)]	Loss: 1.102228
6720	Train Epoch: 7 [6000/8000 (75%)]	Loss: 0.999338
6721	Train Epoch: 7 [7000/8000 (88%)]	Loss: 1.054553
6722		
6723	Test set: Avg. loss: 0.6854, Accuracy: 1652/2000 (82.600%)	
6724		
6725	New best test_loss: 0.6854400038719177!	
6726	Train Epoch: 8 [0/8000 (0%)]	Loss: 1.034119
6727	Train Epoch: 8 [1000/8000 (12%)]	Loss: 1.012464
6728	Train Epoch: 8 [2000/8000 (25%)]	Loss: 0.950383
6729	Train Epoch: 8 [3000/8000 (38%)]	Loss: 1.160616
6730	Train Epoch: 8 [4000/8000 (50%)]	Loss: 0.927163
6731	Train Epoch: 8 [5000/8000 (62%)]	Loss: 1.049891
6732	Train Epoch: 8 [6000/8000 (75%)]	Loss: 0.922784
6733	Train Epoch: 8 [7000/8000 (88%)]	Loss: 0.926720
6734		
6735	Test set: Avg. loss: 0.5959, Accuracy: 1688/2000 (84.400%)	
6736		
6737	New best test_loss: 0.5959367752075195!	
6738	Train Epoch: 9 [0/8000 (0%)]	Loss: 0.844587
6739	Train Epoch: 9 [1000/8000 (12%)]	Loss: 0.932340
6740	Train Epoch: 9 [2000/8000 (25%)]	Loss: 0.833048
6741	Train Epoch: 9 [3000/8000 (38%)]	Loss: 0.987320
6742	Train Epoch: 9 [4000/8000 (50%)]	Loss: 1.006828
6743	Train Epoch: 9 [5000/8000 (62%)]	Loss: 0.906869
6744	Train Epoch: 9 [6000/8000 (75%)]	Loss: 0.847353
6745	Train Epoch: 9 [7000/8000 (88%)]	Loss: 0.853427
6746		
6747	Test set: Avg. loss: 0.5326, Accuracy: 1709/2000 (85.450%)	
6748		
6749	New best test_loss: 0.532631516456604!	
6750	Train Epoch: 10 [0/8000 (0%)]	Loss: 0.662534
6751	Train Epoch: 10 [1000/8000 (12%)]	Loss: 0.753080
6752	Train Epoch: 10 [2000/8000 (25%)]	Loss: 0.908909
6753	Train Epoch: 10 [3000/8000 (38%)]	Loss: 0.921922
6754	Train Epoch: 10 [4000/8000 (50%)]	Loss: 0.847254
6755	Train Epoch: 10 [5000/8000 (62%)]	Loss: 0.895730
6756	Train Epoch: 10 [6000/8000 (75%)]	Loss: 0.842374

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6757 Train Epoch: 10 [7000/8000 (88%)] Loss: 0.970891
6758
6759 Test set: Avg. loss: 0.4983, Accuracy: 1722/2000 (86.100%)
6760
6761 New best test_loss: 0.4982761740684509!
6762 Train Epoch: 11 [0/8000 (0%)] Loss: 0.625700
6763 Train Epoch: 11 [1000/8000 (12%)] Loss: 0.720490
6764 Train Epoch: 11 [2000/8000 (25%)] Loss: 0.749943
6765 Train Epoch: 11 [3000/8000 (38%)] Loss: 0.848637
6766 Train Epoch: 11 [4000/8000 (50%)] Loss: 0.674971
6767 Train Epoch: 11 [5000/8000 (62%)] Loss: 0.825436
6768 Train Epoch: 11 [6000/8000 (75%)] Loss: 0.843614
6769 Train Epoch: 11 [7000/8000 (88%)] Loss: 0.772404
6770
6771 Test set: Avg. loss: 0.4657, Accuracy: 1746/2000 (87.300%)
6772
6773 New best test_loss: 0.46567052602767944!
6774 Train Epoch: 12 [0/8000 (0%)] Loss: 0.636222
6775 Train Epoch: 12 [1000/8000 (12%)] Loss: 0.658586
6776 Train Epoch: 12 [2000/8000 (25%)] Loss: 0.695267
6777 Train Epoch: 12 [3000/8000 (38%)] Loss: 0.790179
6778 Train Epoch: 12 [4000/8000 (50%)] Loss: 0.800124
6779 Train Epoch: 12 [5000/8000 (62%)] Loss: 0.769399
6780 Train Epoch: 12 [6000/8000 (75%)] Loss: 0.762736
6781 Train Epoch: 12 [7000/8000 (88%)] Loss: 0.703144
6782
6783 Test set: Avg. loss: 0.4512, Accuracy: 1745/2000 (87.250%)
6784
6785 New best test_loss: 0.45120522379875183!
6786 Train Epoch: 13 [0/8000 (0%)] Loss: 0.678422
6787 Train Epoch: 13 [1000/8000 (12%)] Loss: 0.617758
6788 Train Epoch: 13 [2000/8000 (25%)] Loss: 0.733691
6789 Train Epoch: 13 [3000/8000 (38%)] Loss: 0.769627
6790 Train Epoch: 13 [4000/8000 (50%)] Loss: 0.970046
6791 Train Epoch: 13 [5000/8000 (62%)] Loss: 0.697603
6792 Train Epoch: 13 [6000/8000 (75%)] Loss: 0.602834
6793 Train Epoch: 13 [7000/8000 (88%)] Loss: 0.595750
6794
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6795 Test set: Avg. loss: 0.4315, Accuracy: 1751/2000 (87.550%)
6796
6797 New best test_loss: 0.4314959943294525!
6798 Train Epoch: 14 [0/8000 (0%)] Loss: 0.618368
6799 Train Epoch: 14 [1000/8000 (12%)] Loss: 0.570947
6800 Train Epoch: 14 [2000/8000 (25%)] Loss: 0.479897
6801 Train Epoch: 14 [3000/8000 (38%)] Loss: 0.684446
6802 Train Epoch: 14 [4000/8000 (50%)] Loss: 0.667332
6803 Train Epoch: 14 [5000/8000 (62%)] Loss: 0.899155
6804 Train Epoch: 14 [6000/8000 (75%)] Loss: 0.551431
6805 Train Epoch: 14 [7000/8000 (88%)] Loss: 0.659549
6806
6807 Test set: Avg. loss: 0.3943, Accuracy: 1772/2000 (88.600%)
6808
6809 New best test_loss: 0.3943488597869873!
6810 Train Epoch: 15 [0/8000 (0%)] Loss: 0.555697
6811 Train Epoch: 15 [1000/8000 (12%)] Loss: 0.671446
6812 Train Epoch: 15 [2000/8000 (25%)] Loss: 0.723939
6813 Train Epoch: 15 [3000/8000 (38%)] Loss: 0.565680
6814 Train Epoch: 15 [4000/8000 (50%)] Loss: 0.811094
6815 Train Epoch: 15 [5000/8000 (62%)] Loss: 0.832301
6816 Train Epoch: 15 [6000/8000 (75%)] Loss: 0.706919
6817 Train Epoch: 15 [7000/8000 (88%)] Loss: 0.693425
6818
6819 Test set: Avg. loss: 0.3923, Accuracy: 1770/2000 (88.500%)
6820
6821 New best test_loss: 0.3923112154006958!
6822 Train Epoch: 16 [0/8000 (0%)] Loss: 0.453014
6823 Train Epoch: 16 [1000/8000 (12%)] Loss: 0.648159
6824 Train Epoch: 16 [2000/8000 (25%)] Loss: 0.642131
6825 Train Epoch: 16 [3000/8000 (38%)] Loss: 0.645757
6826 Train Epoch: 16 [4000/8000 (50%)] Loss: 0.669676
6827 Train Epoch: 16 [5000/8000 (62%)] Loss: 0.847674
6828 Train Epoch: 16 [6000/8000 (75%)] Loss: 0.558913
6829 Train Epoch: 16 [7000/8000 (88%)] Loss: 0.626502
6830
6831 Test set: Avg. loss: 0.3746, Accuracy: 1784/2000 (89.200%)
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6832
6833 New best test_loss: 0.3746134042739868!
6834 Train Epoch: 17 [0/8000 (0%)] Loss: 0.531404
6835 Train Epoch: 17 [1000/8000 (12%)] Loss: 0.539196
6836 Train Epoch: 17 [2000/8000 (25%)] Loss: 0.575907
6837 Train Epoch: 17 [3000/8000 (38%)] Loss: 0.699240
6838 Train Epoch: 17 [4000/8000 (50%)] Loss: 0.676821
6839 Train Epoch: 17 [5000/8000 (62%)] Loss: 0.669385
6840 Train Epoch: 17 [6000/8000 (75%)] Loss: 0.548974
6841 Train Epoch: 17 [7000/8000 (88%)] Loss: 0.614603
6842
6843 Test set: Avg. loss: 0.3634, Accuracy: 1786/2000 (89.300%)
6844
6845 New best test_loss: 0.3634452819824219!
6846 Train Epoch: 18 [0/8000 (0%)] Loss: 0.489703
6847 Train Epoch: 18 [1000/8000 (12%)] Loss: 0.488734
6848 Train Epoch: 18 [2000/8000 (25%)] Loss: 0.522599
6849 Train Epoch: 18 [3000/8000 (38%)] Loss: 0.668141
6850 Train Epoch: 18 [4000/8000 (50%)] Loss: 0.741291
6851 Train Epoch: 18 [5000/8000 (62%)] Loss: 0.789643
6852 Train Epoch: 18 [6000/8000 (75%)] Loss: 0.566210
6853 Train Epoch: 18 [7000/8000 (88%)] Loss: 0.567681
6854
6855 Test set: Avg. loss: 0.3450, Accuracy: 1790/2000 (89.500%)
6856
6857 New best test_loss: 0.34499120712280273!
6858 Train Epoch: 19 [0/8000 (0%)] Loss: 0.440550
6859 Train Epoch: 19 [1000/8000 (12%)] Loss: 0.545903
6860 Train Epoch: 19 [2000/8000 (25%)] Loss: 0.574615
6861 Train Epoch: 19 [3000/8000 (38%)] Loss: 0.558235
6862 Train Epoch: 19 [4000/8000 (50%)] Loss: 0.601899
6863 Train Epoch: 19 [5000/8000 (62%)] Loss: 0.666638
6864 Train Epoch: 19 [6000/8000 (75%)] Loss: 0.566442
6865 Train Epoch: 19 [7000/8000 (88%)] Loss: 0.525384
6866
6867 Test set: Avg. loss: 0.3319, Accuracy: 1804/2000 (90.200%)
6868
6869 New best test_loss: 0.3318593204021454!
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6870 Train Epoch: 20 [0/8000 (0%)] Loss: 0.394963
6871 Train Epoch: 20 [1000/8000 (12%)] Loss: 0.483760
6872 Train Epoch: 20 [2000/8000 (25%)] Loss: 0.490383
6873 Train Epoch: 20 [3000/8000 (38%)] Loss: 0.724317
6874 Train Epoch: 20 [4000/8000 (50%)] Loss: 0.658579
6875 Train Epoch: 20 [5000/8000 (62%)] Loss: 0.644110
6876 Train Epoch: 20 [6000/8000 (75%)] Loss: 0.548004
6877 Train Epoch: 20 [7000/8000 (88%)] Loss: 0.533786
6878
6879 Test set: Avg. loss: 0.3235, Accuracy: 1811/2000 (90.550%)
6880
6881 New best test_loss: 0.32349398732185364!
6882 Train Epoch: 21 [0/8000 (0%)] Loss: 0.456982
6883 Train Epoch: 21 [1000/8000 (12%)] Loss: 0.461347
6884 Train Epoch: 21 [2000/8000 (25%)] Loss: 0.459852
6885 Train Epoch: 21 [3000/8000 (38%)] Loss: 0.549529
6886 Train Epoch: 21 [4000/8000 (50%)] Loss: 0.720546
6887 Train Epoch: 21 [5000/8000 (62%)] Loss: 0.626003
6888 Train Epoch: 21 [6000/8000 (75%)] Loss: 0.599805
6889 Train Epoch: 21 [7000/8000 (88%)] Loss: 0.617426
6890
6891 Test set: Avg. loss: 0.3086, Accuracy: 1807/2000 (90.350%)
6892
6893 New best test_loss: 0.3086155354976654!
6894 Train Epoch: 22 [0/8000 (0%)] Loss: 0.494463
6895 Train Epoch: 22 [1000/8000 (12%)] Loss: 0.483096
6896 Train Epoch: 22 [2000/8000 (25%)] Loss: 0.531550
6897 Train Epoch: 22 [3000/8000 (38%)] Loss: 0.555584
6898 Train Epoch: 22 [4000/8000 (50%)] Loss: 0.603364
6899 Train Epoch: 22 [5000/8000 (62%)] Loss: 0.614103
6900 Train Epoch: 22 [6000/8000 (75%)] Loss: 0.540948
6901 Train Epoch: 22 [7000/8000 (88%)] Loss: 0.521652
6902
6903 Test set: Avg. loss: 0.3062, Accuracy: 1823/2000 (91.150%)
6904
6905 New best test_loss: 0.3061906397342682!
6906 Train Epoch: 23 [0/8000 (0%)] Loss: 0.460749
6907 Train Epoch: 23 [1000/8000 (12%)] Loss: 0.532367
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6908	Train Epoch: 23	[2000/8000 (25%)]	Loss: 0.462533
6909	Train Epoch: 23	[3000/8000 (38%)]	Loss: 0.616105
6910	Train Epoch: 23	[4000/8000 (50%)]	Loss: 0.545003
6911	Train Epoch: 23	[5000/8000 (62%)]	Loss: 0.589189
6912	Train Epoch: 23	[6000/8000 (75%)]	Loss: 0.540471
6913	Train Epoch: 23	[7000/8000 (88%)]	Loss: 0.528425
6914			
6915	Test set:	Avg. loss: 0.3058, Accuracy: 1827/2000 (91.350%)	
6916			
6917	New best test_loss: 0.30578872561454773!		
6918	Train Epoch: 24	[0/8000 (0%)]	Loss: 0.313080
6919	Train Epoch: 24	[1000/8000 (12%)]	Loss: 0.522478
6920	Train Epoch: 24	[2000/8000 (25%)]	Loss: 0.497641
6921	Train Epoch: 24	[3000/8000 (38%)]	Loss: 0.567518
6922	Train Epoch: 24	[4000/8000 (50%)]	Loss: 0.561336
6923	Train Epoch: 24	[5000/8000 (62%)]	Loss: 0.610317
6924	Train Epoch: 24	[6000/8000 (75%)]	Loss: 0.575757
6925	Train Epoch: 24	[7000/8000 (88%)]	Loss: 0.588243
6926			
6927	Test set:	Avg. loss: 0.2896, Accuracy: 1824/2000 (91.200%)	
6928			
6929	New best test_loss: 0.2896250784397125!		
6930	Train Epoch: 25	[0/8000 (0%)]	Loss: 0.407181
6931	Train Epoch: 25	[1000/8000 (12%)]	Loss: 0.359396
6932	Train Epoch: 25	[2000/8000 (25%)]	Loss: 0.511990
6933	Train Epoch: 25	[3000/8000 (38%)]	Loss: 0.521492
6934	Train Epoch: 25	[4000/8000 (50%)]	Loss: 0.505452
6935	Train Epoch: 25	[5000/8000 (62%)]	Loss: 0.729769
6936	Train Epoch: 25	[6000/8000 (75%)]	Loss: 0.530546
6937	Train Epoch: 25	[7000/8000 (88%)]	Loss: 0.437473
6938			
6939	Test set:	Avg. loss: 0.2868, Accuracy: 1827/2000 (91.350%)	
6940			
6941	New best test_loss: 0.28675809502601624!		
6942	Train Epoch: 26	[0/8000 (0%)]	Loss: 0.325474
6943	Train Epoch: 26	[1000/8000 (12%)]	Loss: 0.487771
6944	Train Epoch: 26	[2000/8000 (25%)]	Loss: 0.418810
6945	Train Epoch: 26	[3000/8000 (38%)]	Loss: 0.477503

6946	Train Epoch: 26	[4000/8000 (50%)]	Loss: 0.494244
6947	Train Epoch: 26	[5000/8000 (62%)]	Loss: 0.585155
6948	Train Epoch: 26	[6000/8000 (75%)]	Loss: 0.485560
6949	Train Epoch: 26	[7000/8000 (88%)]	Loss: 0.409578
6950			
6951	Test set:	Avg. loss: 0.2864, Accuracy: 1828/2000 (91.400%)	
6952			
6953	New best test_loss:	0.28642547130584717!	
6954	Train Epoch: 27	[0/8000 (0%)]	Loss: 0.418744
6955	Train Epoch: 27	[1000/8000 (12%)]	Loss: 0.450780
6956	Train Epoch: 27	[2000/8000 (25%)]	Loss: 0.494230
6957	Train Epoch: 27	[3000/8000 (38%)]	Loss: 0.407694
6958	Train Epoch: 27	[4000/8000 (50%)]	Loss: 0.558080
6959	Train Epoch: 27	[5000/8000 (62%)]	Loss: 0.544516
6960	Train Epoch: 27	[6000/8000 (75%)]	Loss: 0.518267
6961	Train Epoch: 27	[7000/8000 (88%)]	Loss: 0.478388
6962			
6963	Test set:	Avg. loss: 0.2766, Accuracy: 1836/2000 (91.800%)	
6964			
6965	New best test_loss:	0.2765893340110779!	
6966	Train Epoch: 28	[0/8000 (0%)]	Loss: 0.397489
6967	Train Epoch: 28	[1000/8000 (12%)]	Loss: 0.404663
6968	Train Epoch: 28	[2000/8000 (25%)]	Loss: 0.487919
6969	Train Epoch: 28	[3000/8000 (38%)]	Loss: 0.499352
6970	Train Epoch: 28	[4000/8000 (50%)]	Loss: 0.529425
6971	Train Epoch: 28	[5000/8000 (62%)]	Loss: 0.509342
6972	Train Epoch: 28	[6000/8000 (75%)]	Loss: 0.507847
6973	Train Epoch: 28	[7000/8000 (88%)]	Loss: 0.605302
6974			
6975	Test set:	Avg. loss: 0.2740, Accuracy: 1829/2000 (91.450%)	
6976			
6977	New best test_loss:	0.2740340530872345!	
6978	Train Epoch: 29	[0/8000 (0%)]	Loss: 0.343096
6979	Train Epoch: 29	[1000/8000 (12%)]	Loss: 0.421167
6980	Train Epoch: 29	[2000/8000 (25%)]	Loss: 0.433632
6981	Train Epoch: 29	[3000/8000 (38%)]	Loss: 0.472205
6982	Train Epoch: 29	[4000/8000 (50%)]	Loss: 0.477266
6983	Train Epoch: 29	[5000/8000 (62%)]	Loss: 0.654761

6984	Train Epoch: 29 [6000/8000 (75%)]	Loss: 0.576071
6985	Train Epoch: 29 [7000/8000 (88%)]	Loss: 0.467639
6986		
6987	Test set: Avg. loss: 0.2674, Accuracy: 1840/2000 (92.000%)	
6988		
6989	New best test_loss: 0.2673693895339966!	
6990	Train Epoch: 30 [0/8000 (0%)]	Loss: 0.349982
6991	Train Epoch: 30 [1000/8000 (12%)]	Loss: 0.401757
6992	Train Epoch: 30 [2000/8000 (25%)]	Loss: 0.594408
6993	Train Epoch: 30 [3000/8000 (38%)]	Loss: 0.568941
6994	Train Epoch: 30 [4000/8000 (50%)]	Loss: 0.332403
6995	Train Epoch: 30 [5000/8000 (62%)]	Loss: 0.544646
6996	Train Epoch: 30 [6000/8000 (75%)]	Loss: 0.573098
6997	Train Epoch: 30 [7000/8000 (88%)]	Loss: 0.438312
6998		
6999	Test set: Avg. loss: 0.2647, Accuracy: 1835/2000 (91.750%)	
7000		
7001	New best test_loss: 0.2647445499897003!	
7002	Train Epoch: 31 [0/8000 (0%)]	Loss: 0.369172
7003	Train Epoch: 31 [1000/8000 (12%)]	Loss: 0.382972
7004	Train Epoch: 31 [2000/8000 (25%)]	Loss: 0.455192
7005	Train Epoch: 31 [3000/8000 (38%)]	Loss: 0.482038
7006	Train Epoch: 31 [4000/8000 (50%)]	Loss: 0.588585
7007	Train Epoch: 31 [5000/8000 (62%)]	Loss: 0.477443
7008	Train Epoch: 31 [6000/8000 (75%)]	Loss: 0.433963
7009	Train Epoch: 31 [7000/8000 (88%)]	Loss: 0.361357
7010		
7011	Test set: Avg. loss: 0.2552, Accuracy: 1850/2000 (92.500%)	
7012		
7013	New best test_loss: 0.2552294433116913!	
7014	Train Epoch: 32 [0/8000 (0%)]	Loss: 0.391048
7015	Train Epoch: 32 [1000/8000 (12%)]	Loss: 0.411617
7016	Train Epoch: 32 [2000/8000 (25%)]	Loss: 0.492328
7017	Train Epoch: 32 [3000/8000 (38%)]	Loss: 0.442694
7018	Train Epoch: 32 [4000/8000 (50%)]	Loss: 0.482410
7019	Train Epoch: 32 [5000/8000 (62%)]	Loss: 0.598887
7020	Train Epoch: 32 [6000/8000 (75%)]	Loss: 0.490192
7021	Train Epoch: 32 [7000/8000 (88%)]	Loss: 0.564085

7022
7023 Test set: Avg. loss: 0.2612, Accuracy: 1850/2000 (92.500%)
7024
7025 Train Epoch: 33 [0/8000 (0%)] Loss: 0.339266
7026 Train Epoch: 33 [1000/8000 (12%)] Loss: 0.472136
7027 Train Epoch: 33 [2000/8000 (25%)] Loss: 0.380298
7028 Train Epoch: 33 [3000/8000 (38%)] Loss: 0.451966
7029 Train Epoch: 33 [4000/8000 (50%)] Loss: 0.472791
7030 Train Epoch: 33 [5000/8000 (62%)] Loss: 0.595380
7031 Train Epoch: 33 [6000/8000 (75%)] Loss: 0.559829
7032 Train Epoch: 33 [7000/8000 (88%)] Loss: 0.496426
7033
7034 Test set: Avg. loss: 0.2539, Accuracy: 1856/2000 (92.800%)
7035
7036 New best test_loss: 0.25391286611557007!
7037 Train Epoch: 34 [0/8000 (0%)] Loss: 0.315149
7038 Train Epoch: 34 [1000/8000 (12%)] Loss: 0.380321
7039 Train Epoch: 34 [2000/8000 (25%)] Loss: 0.311263
7040 Train Epoch: 34 [3000/8000 (38%)] Loss: 0.469704
7041 Train Epoch: 34 [4000/8000 (50%)] Loss: 0.502917
7042 Train Epoch: 34 [5000/8000 (62%)] Loss: 0.506192
7043 Train Epoch: 34 [6000/8000 (75%)] Loss: 0.369547
7044 Train Epoch: 34 [7000/8000 (88%)] Loss: 0.391152
7045
7046 Test set: Avg. loss: 0.2444, Accuracy: 1857/2000 (92.850%)
7047
7048 New best test_loss: 0.24443267285823822!
7049 Train Epoch: 35 [0/8000 (0%)] Loss: 0.373033
7050 Train Epoch: 35 [1000/8000 (12%)] Loss: 0.384294
7051 Train Epoch: 35 [2000/8000 (25%)] Loss: 0.347375
7052 Train Epoch: 35 [3000/8000 (38%)] Loss: 0.472225
7053 Train Epoch: 35 [4000/8000 (50%)] Loss: 0.486166
7054 Train Epoch: 35 [5000/8000 (62%)] Loss: 0.392373
7055 Train Epoch: 35 [6000/8000 (75%)] Loss: 0.404576
7056 Train Epoch: 35 [7000/8000 (88%)] Loss: 0.404327
7057
7058 Test set: Avg. loss: 0.2430, Accuracy: 1858/2000 (92.900%)

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7059
7060 New best test_loss: 0.24301552772521973!
7061 Train Epoch: 36 [0/8000 (0%)] Loss: 0.347535
7062 Train Epoch: 36 [1000/8000 (12%)] Loss: 0.400793
7063 Train Epoch: 36 [2000/8000 (25%)] Loss: 0.474285
7064 Train Epoch: 36 [3000/8000 (38%)] Loss: 0.467753
7065 Train Epoch: 36 [4000/8000 (50%)] Loss: 0.576284
7066 Train Epoch: 36 [5000/8000 (62%)] Loss: 0.526072
7067 Train Epoch: 36 [6000/8000 (75%)] Loss: 0.466801
7068 Train Epoch: 36 [7000/8000 (88%)] Loss: 0.390794
7069
7070 Test set: Avg. loss: 0.2380, Accuracy: 1858/2000 (92.900%)
7071
7072 New best test_loss: 0.23798182606697083!
7073 Train Epoch: 37 [0/8000 (0%)] Loss: 0.362953
7074 Train Epoch: 37 [1000/8000 (12%)] Loss: 0.386056
7075 Train Epoch: 37 [2000/8000 (25%)] Loss: 0.387563
7076 Train Epoch: 37 [3000/8000 (38%)] Loss: 0.368417
7077 Train Epoch: 37 [4000/8000 (50%)] Loss: 0.491068
7078 Train Epoch: 37 [5000/8000 (62%)] Loss: 0.564062
7079 Train Epoch: 37 [6000/8000 (75%)] Loss: 0.341278
7080 Train Epoch: 37 [7000/8000 (88%)] Loss: 0.506569
7081
7082 Test set: Avg. loss: 0.2358, Accuracy: 1858/2000 (92.900%)
7083
7084 New best test_loss: 0.235751673579216!
7085 Train Epoch: 38 [0/8000 (0%)] Loss: 0.407182
7086 Train Epoch: 38 [1000/8000 (12%)] Loss: 0.370841
7087 Train Epoch: 38 [2000/8000 (25%)] Loss: 0.363819
7088 Train Epoch: 38 [3000/8000 (38%)] Loss: 0.479822
7089 Train Epoch: 38 [4000/8000 (50%)] Loss: 0.468598
7090 Train Epoch: 38 [5000/8000 (62%)] Loss: 0.442688
7091 Train Epoch: 38 [6000/8000 (75%)] Loss: 0.466446
7092 Train Epoch: 38 [7000/8000 (88%)] Loss: 0.414725
7093
7094 Test set: Avg. loss: 0.2351, Accuracy: 1867/2000 (93.350%)
7095
7096 New best test_loss: 0.23514482378959656!
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7097 Train Epoch: 39 [0/8000 (0%)] Loss: 0.320060
7098 Train Epoch: 39 [1000/8000 (12%)] Loss: 0.379684
7099 Train Epoch: 39 [2000/8000 (25%)] Loss: 0.393229
7100 Train Epoch: 39 [3000/8000 (38%)] Loss: 0.390065
7101 Train Epoch: 39 [4000/8000 (50%)] Loss: 0.351846
7102 Train Epoch: 39 [5000/8000 (62%)] Loss: 0.564007
7103 Train Epoch: 39 [6000/8000 (75%)] Loss: 0.417663
7104 Train Epoch: 39 [7000/8000 (88%)] Loss: 0.472655
7105
7106 Test set: Avg. loss: 0.2298, Accuracy: 1867/2000 (93.350%)
7107
7108 New best test_loss: 0.22980377078056335!
7109 Train Epoch: 40 [0/8000 (0%)] Loss: 0.356500
7110 Train Epoch: 40 [1000/8000 (12%)] Loss: 0.442106
7111 Train Epoch: 40 [2000/8000 (25%)] Loss: 0.517342
7112 Train Epoch: 40 [3000/8000 (38%)] Loss: 0.447473
7113 Train Epoch: 40 [4000/8000 (50%)] Loss: 0.488401
7114 Train Epoch: 40 [5000/8000 (62%)] Loss: 0.569798
7115 Train Epoch: 40 [6000/8000 (75%)] Loss: 0.390566
7116 Train Epoch: 40 [7000/8000 (88%)] Loss: 0.381686
7117
7118 Test set: Avg. loss: 0.2285, Accuracy: 1867/2000 (93.350%)
7119
7120 New best test_loss: 0.22848919034004211!
7121 Train Epoch: 41 [0/8000 (0%)] Loss: 0.267922
7122 Train Epoch: 41 [1000/8000 (12%)] Loss: 0.325886
7123 Train Epoch: 41 [2000/8000 (25%)] Loss: 0.465217
7124 Train Epoch: 41 [3000/8000 (38%)] Loss: 0.518484
7125 Train Epoch: 41 [4000/8000 (50%)] Loss: 0.451199
7126 Train Epoch: 41 [5000/8000 (62%)] Loss: 0.514860
7127 Train Epoch: 41 [6000/8000 (75%)] Loss: 0.481605
7128 Train Epoch: 41 [7000/8000 (88%)] Loss: 0.450482
7129
7130 Test set: Avg. loss: 0.2219, Accuracy: 1872/2000 (93.600%)
7131
7132 New best test_loss: 0.22187165915966034!
7133 Train Epoch: 42 [0/8000 (0%)] Loss: 0.326184
7134 Train Epoch: 42 [1000/8000 (12%)] Loss: 0.403883
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7135	Train Epoch: 42	[2000/8000 (25%)]	Loss: 0.406105
7136	Train Epoch: 42	[3000/8000 (38%)]	Loss: 0.317540
7137	Train Epoch: 42	[4000/8000 (50%)]	Loss: 0.422702
7138	Train Epoch: 42	[5000/8000 (62%)]	Loss: 0.573255
7139	Train Epoch: 42	[6000/8000 (75%)]	Loss: 0.516664
7140	Train Epoch: 42	[7000/8000 (88%)]	Loss: 0.381743
7141			
7142	Test set:	Avg. loss: 0.2217, Accuracy: 1870/2000 (93.500%)	
7143			
7144	New best test_loss:	0.22166790068149567!	
7145	Train Epoch: 43	[0/8000 (0%)]	Loss: 0.242883
7146	Train Epoch: 43	[1000/8000 (12%)]	Loss: 0.388190
7147	Train Epoch: 43	[2000/8000 (25%)]	Loss: 0.465523
7148	Train Epoch: 43	[3000/8000 (38%)]	Loss: 0.431448
7149	Train Epoch: 43	[4000/8000 (50%)]	Loss: 0.439721
7150	Train Epoch: 43	[5000/8000 (62%)]	Loss: 0.578348
7151	Train Epoch: 43	[6000/8000 (75%)]	Loss: 0.499507
7152	Train Epoch: 43	[7000/8000 (88%)]	Loss: 0.498224
7153			
7154	Test set:	Avg. loss: 0.2188, Accuracy: 1872/2000 (93.600%)	
7155			
7156	New best test_loss:	0.21878880262374878!	
7157	Train Epoch: 44	[0/8000 (0%)]	Loss: 0.272274
7158	Train Epoch: 44	[1000/8000 (12%)]	Loss: 0.358539
7159	Train Epoch: 44	[2000/8000 (25%)]	Loss: 0.354236
7160	Train Epoch: 44	[3000/8000 (38%)]	Loss: 0.352052
7161	Train Epoch: 44	[4000/8000 (50%)]	Loss: 0.481627
7162	Train Epoch: 44	[5000/8000 (62%)]	Loss: 0.526928
7163	Train Epoch: 44	[6000/8000 (75%)]	Loss: 0.408849
7164	Train Epoch: 44	[7000/8000 (88%)]	Loss: 0.332809
7165			
7166	Test set:	Avg. loss: 0.2145, Accuracy: 1871/2000 (93.550%)	
7167			
7168	New best test_loss:	0.2144555002450943!	
7169	Train Epoch: 45	[0/8000 (0%)]	Loss: 0.234819
7170	Train Epoch: 45	[1000/8000 (12%)]	Loss: 0.440385
7171	Train Epoch: 45	[2000/8000 (25%)]	Loss: 0.331540
7172	Train Epoch: 45	[3000/8000 (38%)]	Loss: 0.406596

7173	Train Epoch: 45 [4000/8000 (50%)]	Loss: 0.458196
7174	Train Epoch: 45 [5000/8000 (62%)]	Loss: 0.403044
7175	Train Epoch: 45 [6000/8000 (75%)]	Loss: 0.343100
7176	Train Epoch: 45 [7000/8000 (88%)]	Loss: 0.424684
7177		
7178	Test set: Avg. loss: 0.2149, Accuracy: 1871/2000 (93.550%)	
7179		
7180	Train Epoch: 46 [0/8000 (0%)]	Loss: 0.288041
7181	Train Epoch: 46 [1000/8000 (12%)]	Loss: 0.283116
7182	Train Epoch: 46 [2000/8000 (25%)]	Loss: 0.277308
7183	Train Epoch: 46 [3000/8000 (38%)]	Loss: 0.367320
7184	Train Epoch: 46 [4000/8000 (50%)]	Loss: 0.373821
7185	Train Epoch: 46 [5000/8000 (62%)]	Loss: 0.484631
7186	Train Epoch: 46 [6000/8000 (75%)]	Loss: 0.315944
7187	Train Epoch: 46 [7000/8000 (88%)]	Loss: 0.385792
7188		
7189	Test set: Avg. loss: 0.2136, Accuracy: 1875/2000 (93.750%)	
7190		
7191	New best test_loss: 0.2136336863040924!	
7192	Train Epoch: 47 [0/8000 (0%)]	Loss: 0.298709
7193	Train Epoch: 47 [1000/8000 (12%)]	Loss: 0.334687
7194	Train Epoch: 47 [2000/8000 (25%)]	Loss: 0.329283
7195	Train Epoch: 47 [3000/8000 (38%)]	Loss: 0.592146
7196	Train Epoch: 47 [4000/8000 (50%)]	Loss: 0.560674
7197	Train Epoch: 47 [5000/8000 (62%)]	Loss: 0.328719
7198	Train Epoch: 47 [6000/8000 (75%)]	Loss: 0.358099
7199	Train Epoch: 47 [7000/8000 (88%)]	Loss: 0.452060
7200		
7201	Test set: Avg. loss: 0.2127, Accuracy: 1874/2000 (93.700%)	
7202		
7203	New best test_loss: 0.21273481845855713!	
7204	Train Epoch: 48 [0/8000 (0%)]	Loss: 0.352018
7205	Train Epoch: 48 [1000/8000 (12%)]	Loss: 0.312503
7206	Train Epoch: 48 [2000/8000 (25%)]	Loss: 0.391735
7207	Train Epoch: 48 [3000/8000 (38%)]	Loss: 0.534323
7208	Train Epoch: 48 [4000/8000 (50%)]	Loss: 0.425143
7209	Train Epoch: 48 [5000/8000 (62%)]	Loss: 0.559392
7210	Train Epoch: 48 [6000/8000 (75%)]	Loss: 0.452980

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7211 Train Epoch: 48 [7000/8000 (88%)] Loss: 0.335026
7212
7213 Test set: Avg. loss: 0.2071, Accuracy: 1876/2000 (93.800%)
7214
7215 New best test_loss: 0.2071342021226883!
7216 Train Epoch: 49 [0/8000 (0%)] Loss: 0.273089
7217 Train Epoch: 49 [1000/8000 (12%)] Loss: 0.296657
7218 Train Epoch: 49 [2000/8000 (25%)] Loss: 0.400754
7219 Train Epoch: 49 [3000/8000 (38%)] Loss: 0.394810
7220 Train Epoch: 49 [4000/8000 (50%)] Loss: 0.440980
7221 Train Epoch: 49 [5000/8000 (62%)] Loss: 0.456740
7222 Train Epoch: 49 [6000/8000 (75%)] Loss: 0.509769
7223 Train Epoch: 49 [7000/8000 (88%)] Loss: 0.331589
7224
7225 Test set: Avg. loss: 0.2042, Accuracy: 1879/2000 (93.950%)
7226
7227 New best test_loss: 0.20419013500213623!
7228 Train Epoch: 50 [0/8000 (0%)] Loss: 0.249476
7229 Train Epoch: 50 [1000/8000 (12%)] Loss: 0.288840
7230 Train Epoch: 50 [2000/8000 (25%)] Loss: 0.430419
7231 Train Epoch: 50 [3000/8000 (38%)] Loss: 0.266586
7232 Train Epoch: 50 [4000/8000 (50%)] Loss: 0.295453
7233 Train Epoch: 50 [5000/8000 (62%)] Loss: 0.427371
7234 Train Epoch: 50 [6000/8000 (75%)] Loss: 0.520485
7235 Train Epoch: 50 [7000/8000 (88%)] Loss: 0.359449
7236
7237 Test set: Avg. loss: 0.2006, Accuracy: 1883/2000 (94.150%)
7238
7239 New best test_loss: 0.2005569189786911!
7240 Train Epoch: 51 [0/8000 (0%)] Loss: 0.385666
7241 Train Epoch: 51 [1000/8000 (12%)] Loss: 0.323316
7242 Train Epoch: 51 [2000/8000 (25%)] Loss: 0.413817
7243 Train Epoch: 51 [3000/8000 (38%)] Loss: 0.375719
7244 Train Epoch: 51 [4000/8000 (50%)] Loss: 0.350342
7245 Train Epoch: 51 [5000/8000 (62%)] Loss: 0.489020
7246 Train Epoch: 51 [6000/8000 (75%)] Loss: 0.388250
7247 Train Epoch: 51 [7000/8000 (88%)] Loss: 0.319005
7248
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7249 Test set: Avg. loss: 0.2045, Accuracy: 1880/2000 (94.000%)
7250
7251 Train Epoch: 52 [0/8000 (0%)] Loss: 0.299871
7252 Train Epoch: 52 [1000/8000 (12%)] Loss: 0.378303
7253 Train Epoch: 52 [2000/8000 (25%)] Loss: 0.302056
7254 Train Epoch: 52 [3000/8000 (38%)] Loss: 0.366571
7255 Train Epoch: 52 [4000/8000 (50%)] Loss: 0.455550
7256 Train Epoch: 52 [5000/8000 (62%)] Loss: 0.398055
7257 Train Epoch: 52 [6000/8000 (75%)] Loss: 0.309542
7258 Train Epoch: 52 [7000/8000 (88%)] Loss: 0.390499
7259
7260 Test set: Avg. loss: 0.1997, Accuracy: 1883/2000 (94.150%)
7261
7262 New best test_loss: 0.19969592988491058!
7263 Train Epoch: 53 [0/8000 (0%)] Loss: 0.247743
7264 Train Epoch: 53 [1000/8000 (12%)] Loss: 0.306753
7265 Train Epoch: 53 [2000/8000 (25%)] Loss: 0.289282
7266 Train Epoch: 53 [3000/8000 (38%)] Loss: 0.314565
7267 Train Epoch: 53 [4000/8000 (50%)] Loss: 0.447335
7268 Train Epoch: 53 [5000/8000 (62%)] Loss: 0.426218
7269 Train Epoch: 53 [6000/8000 (75%)] Loss: 0.379662
7270 Train Epoch: 53 [7000/8000 (88%)] Loss: 0.445716
7271
7272 Test set: Avg. loss: 0.1936, Accuracy: 1888/2000 (94.400%)
7273
7274 New best test_loss: 0.19361016154289246!
7275 Train Epoch: 54 [0/8000 (0%)] Loss: 0.276549
7276 Train Epoch: 54 [1000/8000 (12%)] Loss: 0.300088
7277 Train Epoch: 54 [2000/8000 (25%)] Loss: 0.365267
7278 Train Epoch: 54 [3000/8000 (38%)] Loss: 0.324771
7279 Train Epoch: 54 [4000/8000 (50%)] Loss: 0.315642
7280 Train Epoch: 54 [5000/8000 (62%)] Loss: 0.393817
7281 Train Epoch: 54 [6000/8000 (75%)] Loss: 0.406955
7282 Train Epoch: 54 [7000/8000 (88%)] Loss: 0.347012
7283
7284 Test set: Avg. loss: 0.2001, Accuracy: 1888/2000 (94.400%)
7285
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7286 Train Epoch: 55 [0/8000 (0%)] Loss: 0.254639
7287 Train Epoch: 55 [1000/8000 (12%)] Loss: 0.347993
7288 Train Epoch: 55 [2000/8000 (25%)] Loss: 0.443230
7289 Train Epoch: 55 [3000/8000 (38%)] Loss: 0.351146
7290 Train Epoch: 55 [4000/8000 (50%)] Loss: 0.445524
7291 Train Epoch: 55 [5000/8000 (62%)] Loss: 0.388653
7292 Train Epoch: 55 [6000/8000 (75%)] Loss: 0.324126
7293 Train Epoch: 55 [7000/8000 (88%)] Loss: 0.383274
7294
7295 Test set: Avg. loss: 0.1897, Accuracy: 1883/2000 (94.150%)
7296
7297 New best test_loss: 0.18972523510456085!
7298 Train Epoch: 56 [0/8000 (0%)] Loss: 0.275366
7299 Train Epoch: 56 [1000/8000 (12%)] Loss: 0.388410
7300 Train Epoch: 56 [2000/8000 (25%)] Loss: 0.310205
7301 Train Epoch: 56 [3000/8000 (38%)] Loss: 0.346698
7302 Train Epoch: 56 [4000/8000 (50%)] Loss: 0.425778
7303 Train Epoch: 56 [5000/8000 (62%)] Loss: 0.419042
7304 Train Epoch: 56 [6000/8000 (75%)] Loss: 0.294619
7305 Train Epoch: 56 [7000/8000 (88%)] Loss: 0.376934
7306
7307 Test set: Avg. loss: 0.1868, Accuracy: 1894/2000 (94.700%)
7308
7309 New best test_loss: 0.18684899806976318!
7310 Train Epoch: 57 [0/8000 (0%)] Loss: 0.206698
7311 Train Epoch: 57 [1000/8000 (12%)] Loss: 0.309998
7312 Train Epoch: 57 [2000/8000 (25%)] Loss: 0.260181
7313 Train Epoch: 57 [3000/8000 (38%)] Loss: 0.394922
7314 Train Epoch: 57 [4000/8000 (50%)] Loss: 0.381965
7315 Train Epoch: 57 [5000/8000 (62%)] Loss: 0.469328
7316 Train Epoch: 57 [6000/8000 (75%)] Loss: 0.385813
7317 Train Epoch: 57 [7000/8000 (88%)] Loss: 0.357148
7318
7319 Test set: Avg. loss: 0.1888, Accuracy: 1885/2000 (94.250%)
7320
7321 Train Epoch: 58 [0/8000 (0%)] Loss: 0.301806
7322 Train Epoch: 58 [1000/8000 (12%)] Loss: 0.260506
7323 Train Epoch: 58 [2000/8000 (25%)] Loss: 0.327340
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7324	Train Epoch: 58	[3000/8000 (38%)]	Loss: 0.324278
7325	Train Epoch: 58	[4000/8000 (50%)]	Loss: 0.437427
7326	Train Epoch: 58	[5000/8000 (62%)]	Loss: 0.486597
7327	Train Epoch: 58	[6000/8000 (75%)]	Loss: 0.241772
7328	Train Epoch: 58	[7000/8000 (88%)]	Loss: 0.494445
7329			
7330	Test set:	Avg. loss: 0.1874, Accuracy: 1892/2000 (94.600%)	
7331			
7332	Train Epoch: 59	[0/8000 (0%)]	Loss: 0.218979
7333	Train Epoch: 59	[1000/8000 (12%)]	Loss: 0.298688
7334	Train Epoch: 59	[2000/8000 (25%)]	Loss: 0.354875
7335	Train Epoch: 59	[3000/8000 (38%)]	Loss: 0.365470
7336	Train Epoch: 59	[4000/8000 (50%)]	Loss: 0.343547
7337	Train Epoch: 59	[5000/8000 (62%)]	Loss: 0.404583
7338	Train Epoch: 59	[6000/8000 (75%)]	Loss: 0.285479
7339	Train Epoch: 59	[7000/8000 (88%)]	Loss: 0.360185
7340			
7341	Test set:	Avg. loss: 0.1842, Accuracy: 1899/2000 (94.950%)	
7342			
7343	New best test_loss: 0.18422405421733856!		
7344	Train Epoch: 60	[0/8000 (0%)]	Loss: 0.234968
7345	Train Epoch: 60	[1000/8000 (12%)]	Loss: 0.249527
7346	Train Epoch: 60	[2000/8000 (25%)]	Loss: 0.374936
7347	Train Epoch: 60	[3000/8000 (38%)]	Loss: 0.307831
7348	Train Epoch: 60	[4000/8000 (50%)]	Loss: 0.318264
7349	Train Epoch: 60	[5000/8000 (62%)]	Loss: 0.453349
7350	Train Epoch: 60	[6000/8000 (75%)]	Loss: 0.316009
7351	Train Epoch: 60	[7000/8000 (88%)]	Loss: 0.275886
7352			
7353	Test set:	Avg. loss: 0.1809, Accuracy: 1894/2000 (94.700%)	
7354			
7355	New best test_loss: 0.18093492090702057!		
7356	Train Epoch: 61	[0/8000 (0%)]	Loss: 0.190191
7357	Train Epoch: 61	[1000/8000 (12%)]	Loss: 0.263083
7358	Train Epoch: 61	[2000/8000 (25%)]	Loss: 0.322421
7359	Train Epoch: 61	[3000/8000 (38%)]	Loss: 0.295461
7360	Train Epoch: 61	[4000/8000 (50%)]	Loss: 0.405530
7361	Train Epoch: 61	[5000/8000 (62%)]	Loss: 0.304747

7362	Train Epoch: 61 [6000/8000 (75%)]	Loss: 0.397490
7363	Train Epoch: 61 [7000/8000 (88%)]	Loss: 0.430519
7364		
7365	Test set: Avg. loss: 0.1839, Accuracy: 1896/2000 (94.800%)	
7366		
7367	Train Epoch: 62 [0/8000 (0%)]	Loss: 0.264072
7368	Train Epoch: 62 [1000/8000 (12%)]	Loss: 0.323641
7369	Train Epoch: 62 [2000/8000 (25%)]	Loss: 0.312168
7370	Train Epoch: 62 [3000/8000 (38%)]	Loss: 0.328637
7371	Train Epoch: 62 [4000/8000 (50%)]	Loss: 0.359241
7372	Train Epoch: 62 [5000/8000 (62%)]	Loss: 0.508770
7373	Train Epoch: 62 [6000/8000 (75%)]	Loss: 0.380429
7374	Train Epoch: 62 [7000/8000 (88%)]	Loss: 0.370827
7375		
7376	Test set: Avg. loss: 0.1762, Accuracy: 1896/2000 (94.800%)	
7377		
7378	New best test_loss: 0.17620554566383362!	
7379	Train Epoch: 63 [0/8000 (0%)]	Loss: 0.252459
7380	Train Epoch: 63 [1000/8000 (12%)]	Loss: 0.300667
7381	Train Epoch: 63 [2000/8000 (25%)]	Loss: 0.340179
7382	Train Epoch: 63 [3000/8000 (38%)]	Loss: 0.335853
7383	Train Epoch: 63 [4000/8000 (50%)]	Loss: 0.303370
7384	Train Epoch: 63 [5000/8000 (62%)]	Loss: 0.500829
7385	Train Epoch: 63 [6000/8000 (75%)]	Loss: 0.467872
7386	Train Epoch: 63 [7000/8000 (88%)]	Loss: 0.391404
7387		
7388	Test set: Avg. loss: 0.1778, Accuracy: 1897/2000 (94.850%)	
7389		
7390	Train Epoch: 64 [0/8000 (0%)]	Loss: 0.225415
7391	Train Epoch: 64 [1000/8000 (12%)]	Loss: 0.348771
7392	Train Epoch: 64 [2000/8000 (25%)]	Loss: 0.336362
7393	Train Epoch: 64 [3000/8000 (38%)]	Loss: 0.363136
7394	Train Epoch: 64 [4000/8000 (50%)]	Loss: 0.400225
7395	Train Epoch: 64 [5000/8000 (62%)]	Loss: 0.489726
7396	Train Epoch: 64 [6000/8000 (75%)]	Loss: 0.328565
7397	Train Epoch: 64 [7000/8000 (88%)]	Loss: 0.349956
7398		
7399	Test set: Avg. loss: 0.1762, Accuracy: 1897/2000 (94.850%)	

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7399 94.850%)
7400
7401 Train Epoch: 65 [0/8000 (0%)] Loss: 0.202844
7402 Train Epoch: 65 [1000/8000 (12%)] Loss: 0.263752
7403 Train Epoch: 65 [2000/8000 (25%)] Loss: 0.462388
7404 Train Epoch: 65 [3000/8000 (38%)] Loss: 0.297798
7405 Train Epoch: 65 [4000/8000 (50%)] Loss: 0.458250
7406 Train Epoch: 65 [5000/8000 (62%)] Loss: 0.411204
7407 Train Epoch: 65 [6000/8000 (75%)] Loss: 0.323947
7408 Train Epoch: 65 [7000/8000 (88%)] Loss: 0.386606
7409
7410 Test set: Avg. loss: 0.1763, Accuracy: 1901/2000 (95.050%)
7411
7412 Train Epoch: 66 [0/8000 (0%)] Loss: 0.233863
7413 Train Epoch: 66 [1000/8000 (12%)] Loss: 0.262528
7414 Train Epoch: 66 [2000/8000 (25%)] Loss: 0.272705
7415 Train Epoch: 66 [3000/8000 (38%)] Loss: 0.382183
7416 Train Epoch: 66 [4000/8000 (50%)] Loss: 0.346031
7417 Train Epoch: 66 [5000/8000 (62%)] Loss: 0.393745
7418 Train Epoch: 66 [6000/8000 (75%)] Loss: 0.188663
7419 Train Epoch: 66 [7000/8000 (88%)] Loss: 0.314817
7420
7421 Test set: Avg. loss: 0.1771, Accuracy: 1897/2000 (94.850%)
7422
7423 Train Epoch: 67 [0/8000 (0%)] Loss: 0.217732
7424 Train Epoch: 67 [1000/8000 (12%)] Loss: 0.321995
7425 Train Epoch: 67 [2000/8000 (25%)] Loss: 0.354311
7426 Train Epoch: 67 [3000/8000 (38%)] Loss: 0.320619
7427 Train Epoch: 67 [4000/8000 (50%)] Loss: 0.552000
7428 Train Epoch: 67 [5000/8000 (62%)] Loss: 0.429874
7429 Train Epoch: 67 [6000/8000 (75%)] Loss: 0.434454
7430 Train Epoch: 67 [7000/8000 (88%)] Loss: 0.439907
7431
7432 Test set: Avg. loss: 0.1746, Accuracy: 1900/2000 (95.000%)
7433
7434 New best test_loss: 0.17464211583137512!
7435 Train Epoch: 68 [0/8000 (0%)] Loss: 0.261387
7436 Train Epoch: 68 [1000/8000 (12%)] Loss: 0.241025
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7437	Train Epoch: 68	[2000/8000 (25%)]	Loss: 0.354940
7438	Train Epoch: 68	[3000/8000 (38%)]	Loss: 0.266818
7439	Train Epoch: 68	[4000/8000 (50%)]	Loss: 0.486997
7440	Train Epoch: 68	[5000/8000 (62%)]	Loss: 0.350172
7441	Train Epoch: 68	[6000/8000 (75%)]	Loss: 0.261074
7442	Train Epoch: 68	[7000/8000 (88%)]	Loss: 0.342745
7443			
7444	Test set:	Avg. loss: 0.1713, Accuracy: 1899/2000 (94.95%)	
7445			
7446	New best test_loss:	0.1713244915008545!	
7447	Train Epoch: 69	[0/8000 (0%)]	Loss: 0.183586
7448	Train Epoch: 69	[1000/8000 (12%)]	Loss: 0.247222
7449	Train Epoch: 69	[2000/8000 (25%)]	Loss: 0.320645
7450	Train Epoch: 69	[3000/8000 (38%)]	Loss: 0.268888
7451	Train Epoch: 69	[4000/8000 (50%)]	Loss: 0.300474
7452	Train Epoch: 69	[5000/8000 (62%)]	Loss: 0.425275
7453	Train Epoch: 69	[6000/8000 (75%)]	Loss: 0.427117
7454	Train Epoch: 69	[7000/8000 (88%)]	Loss: 0.352756
7455			
7456	Test set:	Avg. loss: 0.1724, Accuracy: 1903/2000 (95.150%)	
7457			
7458	Train Epoch: 70	[0/8000 (0%)]	Loss: 0.132283
7459	Train Epoch: 70	[1000/8000 (12%)]	Loss: 0.275062
7460	Train Epoch: 70	[2000/8000 (25%)]	Loss: 0.263830
7461	Train Epoch: 70	[3000/8000 (38%)]	Loss: 0.235750
7462	Train Epoch: 70	[4000/8000 (50%)]	Loss: 0.404944
7463	Train Epoch: 70	[5000/8000 (62%)]	Loss: 0.380053
7464	Train Epoch: 70	[6000/8000 (75%)]	Loss: 0.358626
7465	Train Epoch: 70	[7000/8000 (88%)]	Loss: 0.420614
7466			
7467	Test set:	Avg. loss: 0.1722, Accuracy: 1901/2000 (95.050%)	
7468			
7469	Train Epoch: 71	[0/8000 (0%)]	Loss: 0.257667
7470	Train Epoch: 71	[1000/8000 (12%)]	Loss: 0.256458
7471	Train Epoch: 71	[2000/8000 (25%)]	Loss: 0.354295
7472	Train Epoch: 71	[3000/8000 (38%)]	Loss: 0.354308
7473	Train Epoch: 71	[4000/8000 (50%)]	Loss: 0.336657
7474	Train Epoch: 71	[5000/8000 (62%)]	Loss: 0.398848

7475	Train Epoch: 71 [6000/8000 (75%)]	Loss: 0.431472
7476	Train Epoch: 71 [7000/8000 (88%)]	Loss: 0.315031
7477		
7478	Test set: Avg. loss: 0.1734, Accuracy: 1896/2000 (94.800%)	
7479		
7480	Train Epoch: 72 [0/8000 (0%)]	Loss: 0.244502
7481	Train Epoch: 72 [1000/8000 (12%)]	Loss: 0.316862
7482	Train Epoch: 72 [2000/8000 (25%)]	Loss: 0.252813
7483	Train Epoch: 72 [3000/8000 (38%)]	Loss: 0.275126
7484	Train Epoch: 72 [4000/8000 (50%)]	Loss: 0.490222
7485	Train Epoch: 72 [5000/8000 (62%)]	Loss: 0.435611
7486	Train Epoch: 72 [6000/8000 (75%)]	Loss: 0.266890
7487	Train Epoch: 72 [7000/8000 (88%)]	Loss: 0.349568
7488		
7489	Test set: Avg. loss: 0.1697, Accuracy: 1901/2000 (95.050%)	
7490		
7491	New best test_loss: 0.16970425844192505!	
7492	Train Epoch: 73 [0/8000 (0%)]	Loss: 0.225613
7493	Train Epoch: 73 [1000/8000 (12%)]	Loss: 0.221106
7494	Train Epoch: 73 [2000/8000 (25%)]	Loss: 0.301663
7495	Train Epoch: 73 [3000/8000 (38%)]	Loss: 0.319986
7496	Train Epoch: 73 [4000/8000 (50%)]	Loss: 0.341022
7497	Train Epoch: 73 [5000/8000 (62%)]	Loss: 0.445302
7498	Train Epoch: 73 [6000/8000 (75%)]	Loss: 0.322084
7499	Train Epoch: 73 [7000/8000 (88%)]	Loss: 0.384110
7500		
7501	Test set: Avg. loss: 0.1690, Accuracy: 1903/2000 (95.150%)	
7502		
7503	New best test_loss: 0.16897159814834595!	
7504	Train Epoch: 74 [0/8000 (0%)]	Loss: 0.220036
7505	Train Epoch: 74 [1000/8000 (12%)]	Loss: 0.347848
7506	Train Epoch: 74 [2000/8000 (25%)]	Loss: 0.434484
7507	Train Epoch: 74 [3000/8000 (38%)]	Loss: 0.270711
7508	Train Epoch: 74 [4000/8000 (50%)]	Loss: 0.378948
7509	Train Epoch: 74 [5000/8000 (62%)]	Loss: 0.410296
7510	Train Epoch: 74 [6000/8000 (75%)]	Loss: 0.305478
7511	Train Epoch: 74 [7000/8000 (88%)]	Loss: 0.311720
7512		

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7513 Test set: Avg. loss: 0.1703, Accuracy: 1900/2000 (95.000%)
7514
7515 Train Epoch: 75 [0/8000 (0%)] Loss: 0.275610
7516 Train Epoch: 75 [1000/8000 (12%)] Loss: 0.307770
7517 Train Epoch: 75 [2000/8000 (25%)] Loss: 0.328267
7518 Train Epoch: 75 [3000/8000 (38%)] Loss: 0.350578
7519 Train Epoch: 75 [4000/8000 (50%)] Loss: 0.339936
7520 Train Epoch: 75 [5000/8000 (62%)] Loss: 0.445436
7521 Train Epoch: 75 [6000/8000 (75%)] Loss: 0.217296
7522 Train Epoch: 75 [7000/8000 (88%)] Loss: 0.402692
7523
7524 Test set: Avg. loss: 0.1692, Accuracy: 1897/2000 (94.850%)
7525
7526 Train Epoch: 76 [0/8000 (0%)] Loss: 0.214182
7527 Train Epoch: 76 [1000/8000 (12%)] Loss: 0.290879
7528 Train Epoch: 76 [2000/8000 (25%)] Loss: 0.257832
7529 Train Epoch: 76 [3000/8000 (38%)] Loss: 0.218363
7530 Train Epoch: 76 [4000/8000 (50%)] Loss: 0.348624
7531 Train Epoch: 76 [5000/8000 (62%)] Loss: 0.351484
7532 Train Epoch: 76 [6000/8000 (75%)] Loss: 0.291498
7533 Train Epoch: 76 [7000/8000 (88%)] Loss: 0.310097
7534
7535 Test set: Avg. loss: 0.1633, Accuracy: 1908/2000 (95.400%)
7536
7537 New best test_loss: 0.1633053421974182!
7538 Train Epoch: 77 [0/8000 (0%)] Loss: 0.241700
7539 Train Epoch: 77 [1000/8000 (12%)] Loss: 0.357163
7540 Train Epoch: 77 [2000/8000 (25%)] Loss: 0.419020
7541 Train Epoch: 77 [3000/8000 (38%)] Loss: 0.247487
7542 Train Epoch: 77 [4000/8000 (50%)] Loss: 0.411022
7543 Train Epoch: 77 [5000/8000 (62%)] Loss: 0.304822
7544 Train Epoch: 77 [6000/8000 (75%)] Loss: 0.339475
7545 Train Epoch: 77 [7000/8000 (88%)] Loss: 0.278574
7546
7547 Test set: Avg. loss: 0.1658, Accuracy: 1907/2000 (95.350%)
7548
7549 Train Epoch: 78 [0/8000 (0%)] Loss: 0.207488
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7550	Train Epoch: 78	[1000/8000 (12%)]	Loss: 0.206576
7551	Train Epoch: 78	[2000/8000 (25%)]	Loss: 0.423834
7552	Train Epoch: 78	[3000/8000 (38%)]	Loss: 0.347541
7553	Train Epoch: 78	[4000/8000 (50%)]	Loss: 0.320774
7554	Train Epoch: 78	[5000/8000 (62%)]	Loss: 0.370610
7555	Train Epoch: 78	[6000/8000 (75%)]	Loss: 0.265192
7556	Train Epoch: 78	[7000/8000 (88%)]	Loss: 0.313685
7557			
7558	Test set:	Avg. loss: 0.1686, Accuracy: 1904/2000 (95.200%)	
7559			
7560	Train Epoch: 79	[0/8000 (0%)]	Loss: 0.288906
7561	Train Epoch: 79	[1000/8000 (12%)]	Loss: 0.408280
7562	Train Epoch: 79	[2000/8000 (25%)]	Loss: 0.350958
7563	Train Epoch: 79	[3000/8000 (38%)]	Loss: 0.244832
7564	Train Epoch: 79	[4000/8000 (50%)]	Loss: 0.255383
7565	Train Epoch: 79	[5000/8000 (62%)]	Loss: 0.411673
7566	Train Epoch: 79	[6000/8000 (75%)]	Loss: 0.249946
7567	Train Epoch: 79	[7000/8000 (88%)]	Loss: 0.336695
7568			
7569	Test set:	Avg. loss: 0.1658, Accuracy: 1905/2000 (95.250%)	
7570			
7571	Train Epoch: 80	[0/8000 (0%)]	Loss: 0.322627
7572	Train Epoch: 80	[1000/8000 (12%)]	Loss: 0.330390
7573	Train Epoch: 80	[2000/8000 (25%)]	Loss: 0.294220
7574	Train Epoch: 80	[3000/8000 (38%)]	Loss: 0.234177
7575	Train Epoch: 80	[4000/8000 (50%)]	Loss: 0.308030
7576	Train Epoch: 80	[5000/8000 (62%)]	Loss: 0.418805
7577	Train Epoch: 80	[6000/8000 (75%)]	Loss: 0.322195
7578	Train Epoch: 80	[7000/8000 (88%)]	Loss: 0.242170
7579			
7580	Test set:	Avg. loss: 0.1657, Accuracy: 1905/2000 (95.250%)	
7581			
7582	Train Epoch: 81	[0/8000 (0%)]	Loss: 0.153721
7583	Train Epoch: 81	[1000/8000 (12%)]	Loss: 0.280179
7584	Train Epoch: 81	[2000/8000 (25%)]	Loss: 0.322638
7585	Train Epoch: 81	[3000/8000 (38%)]	Loss: 0.247924
7586	Train Epoch: 81	[4000/8000 (50%)]	Loss: 0.389584
7587	Train Epoch: 81	[5000/8000 (62%)]	Loss: 0.417852

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7588 Train Epoch: 81 [6000/8000 (75%)] Loss: 0.277784
7589 Train Epoch: 81 [7000/8000 (88%)] Loss: 0.312680
7590
7591 Test set: Avg. loss: 0.1643, Accuracy: 1904/2000 (95.200%)
7592
7593 Patience exceeded, concluding training after epoch 81
7594 Train Epoch: 1 [0/8000 (0%)] Loss: 2.295218
7595 Train Epoch: 1 [1000/8000 (12%)] Loss: 2.302511
7596 Train Epoch: 1 [2000/8000 (25%)] Loss: 2.316412
7597 Train Epoch: 1 [3000/8000 (38%)] Loss: 2.304715
7598 Train Epoch: 1 [4000/8000 (50%)] Loss: 2.306982
7599 Train Epoch: 1 [5000/8000 (62%)] Loss: 2.309381
7600 Train Epoch: 1 [6000/8000 (75%)] Loss: 2.311497
7601 Train Epoch: 1 [7000/8000 (88%)] Loss: 2.305069
7602
7603 Test set: Avg. loss: 2.3065, Accuracy: 216/2000 (10.800%)
7604
7605 New best test_loss: 2.306532859802246!
7606 Train Epoch: 2 [0/8000 (0%)] Loss: 2.289277
7607 Train Epoch: 2 [1000/8000 (12%)] Loss: 2.301767
7608 Train Epoch: 2 [2000/8000 (25%)] Loss: 2.310424
7609 Train Epoch: 2 [3000/8000 (38%)] Loss: 2.297541
7610 Train Epoch: 2 [4000/8000 (50%)] Loss: 2.301224
7611 Train Epoch: 2 [5000/8000 (62%)] Loss: 2.297297
7612 Train Epoch: 2 [6000/8000 (75%)] Loss: 2.314142
7613 Train Epoch: 2 [7000/8000 (88%)] Loss: 2.302159
7614
7615 Test set: Avg. loss: 2.3044, Accuracy: 216/2000 (10.800%)
7616
7617 New best test_loss: 2.304372549057007!
7618 Train Epoch: 3 [0/8000 (0%)] Loss: 2.290946
7619 Train Epoch: 3 [1000/8000 (12%)] Loss: 2.297385
7620 Train Epoch: 3 [2000/8000 (25%)] Loss: 2.309480
7621 Train Epoch: 3 [3000/8000 (38%)] Loss: 2.293272
7622 Train Epoch: 3 [4000/8000 (50%)] Loss: 2.303141
7623 Train Epoch: 3 [5000/8000 (62%)] Loss: 2.304526
7624 Train Epoch: 3 [6000/8000 (75%)] Loss: 2.312564
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7625	Train Epoch: 3 [7000/8000 (88%)]	Loss: 2.303396
7626		
7627	Test set: Avg. loss: 2.3030, Accuracy: 216/2000 (10.800%)	
7628		
7629	New best test_loss: 2.3029520511627197!	
7630	Train Epoch: 4 [0/8000 (0%)]	Loss: 2.297181
7631	Train Epoch: 4 [1000/8000 (12%)]	Loss: 2.300180
7632	Train Epoch: 4 [2000/8000 (25%)]	Loss: 2.303785
7633	Train Epoch: 4 [3000/8000 (38%)]	Loss: 2.291740
7634	Train Epoch: 4 [4000/8000 (50%)]	Loss: 2.297671
7635	Train Epoch: 4 [5000/8000 (62%)]	Loss: 2.300629
7636	Train Epoch: 4 [6000/8000 (75%)]	Loss: 2.311548
7637	Train Epoch: 4 [7000/8000 (88%)]	Loss: 2.300427
7638		
7639	Test set: Avg. loss: 2.3018, Accuracy: 216/2000 (10.800%)	
7640		
7641	New best test_loss: 2.301806926727295!	
7642	Train Epoch: 5 [0/8000 (0%)]	Loss: 2.297539
7643	Train Epoch: 5 [1000/8000 (12%)]	Loss: 2.298896
7644	Train Epoch: 5 [2000/8000 (25%)]	Loss: 2.297218
7645	Train Epoch: 5 [3000/8000 (38%)]	Loss: 2.292280
7646	Train Epoch: 5 [4000/8000 (50%)]	Loss: 2.299924
7647	Train Epoch: 5 [5000/8000 (62%)]	Loss: 2.299686
7648	Train Epoch: 5 [6000/8000 (75%)]	Loss: 2.309327
7649	Train Epoch: 5 [7000/8000 (88%)]	Loss: 2.295342
7650		
7651	Test set: Avg. loss: 2.3009, Accuracy: 216/2000 (10.800%)	
7652		
7653	New best test_loss: 2.3008501529693604!	
7654	Train Epoch: 6 [0/8000 (0%)]	Loss: 2.290235
7655	Train Epoch: 6 [1000/8000 (12%)]	Loss: 2.296364
7656	Train Epoch: 6 [2000/8000 (25%)]	Loss: 2.300700
7657	Train Epoch: 6 [3000/8000 (38%)]	Loss: 2.296138
7658	Train Epoch: 6 [4000/8000 (50%)]	Loss: 2.296078
7659	Train Epoch: 6 [5000/8000 (62%)]	Loss: 2.302400
7660	Train Epoch: 6 [6000/8000 (75%)]	Loss: 2.314913
7661	Train Epoch: 6 [7000/8000 (88%)]	Loss: 2.300959
7662		

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7663 Test set: Avg. loss: 2.3000, Accuracy: 216/2000 (10
.800%)
7664
7665 New best test_loss: 2.299985408782959!
7666 Train Epoch: 7 [0/8000 (0%)] Loss: 2.292625
7667 Train Epoch: 7 [1000/8000 (12%)] Loss: 2.291644
7668 Train Epoch: 7 [2000/8000 (25%)] Loss: 2.301611
7669 Train Epoch: 7 [3000/8000 (38%)] Loss: 2.295368
7670 Train Epoch: 7 [4000/8000 (50%)] Loss: 2.296926
7671 Train Epoch: 7 [5000/8000 (62%)] Loss: 2.294889
7672 Train Epoch: 7 [6000/8000 (75%)] Loss: 2.314298
7673 Train Epoch: 7 [7000/8000 (88%)] Loss: 2.296198
7674
7675 Test set: Avg. loss: 2.2992, Accuracy: 216/2000 (10
.800%)
7676
7677 New best test_loss: 2.299231767654419!
7678 Train Epoch: 8 [0/8000 (0%)] Loss: 2.291630
7679 Train Epoch: 8 [1000/8000 (12%)] Loss: 2.300858
7680 Train Epoch: 8 [2000/8000 (25%)] Loss: 2.300374
7681 Train Epoch: 8 [3000/8000 (38%)] Loss: 2.291394
7682 Train Epoch: 8 [4000/8000 (50%)] Loss: 2.298818
7683 Train Epoch: 8 [5000/8000 (62%)] Loss: 2.291484
7684 Train Epoch: 8 [6000/8000 (75%)] Loss: 2.312803
7685 Train Epoch: 8 [7000/8000 (88%)] Loss: 2.304547
7686
7687 Test set: Avg. loss: 2.2984, Accuracy: 216/2000 (10
.800%)
7688
7689 New best test_loss: 2.298369884490967!
7690 Train Epoch: 9 [0/8000 (0%)] Loss: 2.296421
7691 Train Epoch: 9 [1000/8000 (12%)] Loss: 2.293372
7692 Train Epoch: 9 [2000/8000 (25%)] Loss: 2.297421
7693 Train Epoch: 9 [3000/8000 (38%)] Loss: 2.290573
7694 Train Epoch: 9 [4000/8000 (50%)] Loss: 2.295664
7695 Train Epoch: 9 [5000/8000 (62%)] Loss: 2.292398
7696 Train Epoch: 9 [6000/8000 (75%)] Loss: 2.313562
7697 Train Epoch: 9 [7000/8000 (88%)] Loss: 2.301214
7698
7699 Test set: Avg. loss: 2.2975, Accuracy: 216/2000 (10
.800%)
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7700
7701 New best test_loss: 2.2975211143493652!
7702 Train Epoch: 10 [0/8000 (0%)] Loss: 2.291884
7703 Train Epoch: 10 [1000/8000 (12%)] Loss: 2.297863
7704 Train Epoch: 10 [2000/8000 (25%)] Loss: 2.293021
7705 Train Epoch: 10 [3000/8000 (38%)] Loss: 2.292899
7706 Train Epoch: 10 [4000/8000 (50%)] Loss: 2.292757
7707 Train Epoch: 10 [5000/8000 (62%)] Loss: 2.291378
7708 Train Epoch: 10 [6000/8000 (75%)] Loss: 2.309903
7709 Train Epoch: 10 [7000/8000 (88%)] Loss: 2.294009
7710
7711 Test set: Avg. loss: 2.2965, Accuracy: 216/2000 (10
.800%)
7712
7713 New best test_loss: 2.296455144882202!
7714 Train Epoch: 11 [0/8000 (0%)] Loss: 2.294395
7715 Train Epoch: 11 [1000/8000 (12%)] Loss: 2.301051
7716 Train Epoch: 11 [2000/8000 (25%)] Loss: 2.287479
7717 Train Epoch: 11 [3000/8000 (38%)] Loss: 2.297717
7718 Train Epoch: 11 [4000/8000 (50%)] Loss: 2.295675
7719 Train Epoch: 11 [5000/8000 (62%)] Loss: 2.289177
7720 Train Epoch: 11 [6000/8000 (75%)] Loss: 2.313029
7721 Train Epoch: 11 [7000/8000 (88%)] Loss: 2.304200
7722
7723 Test set: Avg. loss: 2.2955, Accuracy: 216/2000 (10
.800%)
7724
7725 New best test_loss: 2.2954914569854736!
7726 Train Epoch: 12 [0/8000 (0%)] Loss: 2.290120
7727 Train Epoch: 12 [1000/8000 (12%)] Loss: 2.296848
7728 Train Epoch: 12 [2000/8000 (25%)] Loss: 2.293525
7729 Train Epoch: 12 [3000/8000 (38%)] Loss: 2.293704
7730 Train Epoch: 12 [4000/8000 (50%)] Loss: 2.291430
7731 Train Epoch: 12 [5000/8000 (62%)] Loss: 2.288165
7732 Train Epoch: 12 [6000/8000 (75%)] Loss: 2.309369
7733 Train Epoch: 12 [7000/8000 (88%)] Loss: 2.295022
7734
7735 Test set: Avg. loss: 2.2945, Accuracy: 216/2000 (10
.800%)
7736
7737 New best test_loss: 2.2944705486297607!
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7738	Train Epoch: 13	[0/8000 (0%)]	Loss: 2.289389
7739	Train Epoch: 13	[1000/8000 (12%)]	Loss: 2.292863
7740	Train Epoch: 13	[2000/8000 (25%)]	Loss: 2.285995
7741	Train Epoch: 13	[3000/8000 (38%)]	Loss: 2.290456
7742	Train Epoch: 13	[4000/8000 (50%)]	Loss: 2.296804
7743	Train Epoch: 13	[5000/8000 (62%)]	Loss: 2.280877
7744	Train Epoch: 13	[6000/8000 (75%)]	Loss: 2.309058
7745	Train Epoch: 13	[7000/8000 (88%)]	Loss: 2.290481
7746			
7747	Test set:	Avg. loss: 2.2932, Accuracy: 216/2000 (10.800%)	
7748			
7749	New best test_loss:	2.2932066917419434!	
7750	Train Epoch: 14	[0/8000 (0%)]	Loss: 2.294563
7751	Train Epoch: 14	[1000/8000 (12%)]	Loss: 2.290046
7752	Train Epoch: 14	[2000/8000 (25%)]	Loss: 2.290698
7753	Train Epoch: 14	[3000/8000 (38%)]	Loss: 2.284048
7754	Train Epoch: 14	[4000/8000 (50%)]	Loss: 2.291975
7755	Train Epoch: 14	[5000/8000 (62%)]	Loss: 2.289413
7756	Train Epoch: 14	[6000/8000 (75%)]	Loss: 2.304195
7757	Train Epoch: 14	[7000/8000 (88%)]	Loss: 2.292888
7758			
7759	Test set:	Avg. loss: 2.2918, Accuracy: 216/2000 (10.800%)	
7760			
7761	New best test_loss:	2.291815757751465!	
7762	Train Epoch: 15	[0/8000 (0%)]	Loss: 2.282971
7763	Train Epoch: 15	[1000/8000 (12%)]	Loss: 2.282384
7764	Train Epoch: 15	[2000/8000 (25%)]	Loss: 2.285359
7765	Train Epoch: 15	[3000/8000 (38%)]	Loss: 2.289573
7766	Train Epoch: 15	[4000/8000 (50%)]	Loss: 2.281593
7767	Train Epoch: 15	[5000/8000 (62%)]	Loss: 2.284310
7768	Train Epoch: 15	[6000/8000 (75%)]	Loss: 2.309330
7769	Train Epoch: 15	[7000/8000 (88%)]	Loss: 2.300294
7770			
7771	Test set:	Avg. loss: 2.2903, Accuracy: 216/2000 (10.800%)	
7772			
7773	New best test_loss:	2.290252208709717!	
7774	Train Epoch: 16	[0/8000 (0%)]	Loss: 2.287586
7775	Train Epoch: 16	[1000/8000 (12%)]	Loss: 2.290675

7776	Train Epoch: 16	[2000/8000 (25%)]	Loss: 2.273667
7777	Train Epoch: 16	[3000/8000 (38%)]	Loss: 2.283787
7778	Train Epoch: 16	[4000/8000 (50%)]	Loss: 2.290238
7779	Train Epoch: 16	[5000/8000 (62%)]	Loss: 2.284570
7780	Train Epoch: 16	[6000/8000 (75%)]	Loss: 2.307259
7781	Train Epoch: 16	[7000/8000 (88%)]	Loss: 2.297515
7782			
7783	Test set:	Avg. loss: 2.2881, Accuracy: 216/2000 (10.800%)	
7784			
7785	New best test_loss:	2.2881274223327637!	
7786	Train Epoch: 17	[0/8000 (0%)]	Loss: 2.281728
7787	Train Epoch: 17	[1000/8000 (12%)]	Loss: 2.284031
7788	Train Epoch: 17	[2000/8000 (25%)]	Loss: 2.285979
7789	Train Epoch: 17	[3000/8000 (38%)]	Loss: 2.289081
7790	Train Epoch: 17	[4000/8000 (50%)]	Loss: 2.285828
7791	Train Epoch: 17	[5000/8000 (62%)]	Loss: 2.281990
7792	Train Epoch: 17	[6000/8000 (75%)]	Loss: 2.309909
7793	Train Epoch: 17	[7000/8000 (88%)]	Loss: 2.287432
7794			
7795	Test set:	Avg. loss: 2.2857, Accuracy: 218/2000 (10.900%)	
7796			
7797	New best test_loss:	2.285733461380005!	
7798	Train Epoch: 18	[0/8000 (0%)]	Loss: 2.287260
7799	Train Epoch: 18	[1000/8000 (12%)]	Loss: 2.292232
7800	Train Epoch: 18	[2000/8000 (25%)]	Loss: 2.274794
7801	Train Epoch: 18	[3000/8000 (38%)]	Loss: 2.276853
7802	Train Epoch: 18	[4000/8000 (50%)]	Loss: 2.281228
7803	Train Epoch: 18	[5000/8000 (62%)]	Loss: 2.273389
7804	Train Epoch: 18	[6000/8000 (75%)]	Loss: 2.300161
7805	Train Epoch: 18	[7000/8000 (88%)]	Loss: 2.284763
7806			
7807	Test set:	Avg. loss: 2.2828, Accuracy: 224/2000 (11.200%)	
7808			
7809	New best test_loss:	2.2827632427215576!	
7810	Train Epoch: 19	[0/8000 (0%)]	Loss: 2.281193
7811	Train Epoch: 19	[1000/8000 (12%)]	Loss: 2.274386
7812	Train Epoch: 19	[2000/8000 (25%)]	Loss: 2.267679
7813	Train Epoch: 19	[3000/8000 (38%)]	Loss: 2.287587

7814	Train Epoch: 19	[4000/8000 (50%)]	Loss: 2.274691
7815	Train Epoch: 19	[5000/8000 (62%)]	Loss: 2.270489
7816	Train Epoch: 19	[6000/8000 (75%)]	Loss: 2.296982
7817	Train Epoch: 19	[7000/8000 (88%)]	Loss: 2.292548
7818			
7819	Test set:	Avg. loss: 2.2789, Accuracy: 266/2000 (13.300%)	
7820			
7821	New best test_loss:	2.2789089679718018!	
7822	Train Epoch: 20	[0/8000 (0%)]	Loss: 2.276512
7823	Train Epoch: 20	[1000/8000 (12%)]	Loss: 2.274202
7824	Train Epoch: 20	[2000/8000 (25%)]	Loss: 2.270443
7825	Train Epoch: 20	[3000/8000 (38%)]	Loss: 2.269486
7826	Train Epoch: 20	[4000/8000 (50%)]	Loss: 2.289979
7827	Train Epoch: 20	[5000/8000 (62%)]	Loss: 2.287768
7828	Train Epoch: 20	[6000/8000 (75%)]	Loss: 2.297132
7829	Train Epoch: 20	[7000/8000 (88%)]	Loss: 2.283766
7830			
7831	Test set:	Avg. loss: 2.2742, Accuracy: 286/2000 (14.300%)	
7832			
7833	New best test_loss:	2.2742362022399902!	
7834	Train Epoch: 21	[0/8000 (0%)]	Loss: 2.275642
7835	Train Epoch: 21	[1000/8000 (12%)]	Loss: 2.275839
7836	Train Epoch: 21	[2000/8000 (25%)]	Loss: 2.268598
7837	Train Epoch: 21	[3000/8000 (38%)]	Loss: 2.271208
7838	Train Epoch: 21	[4000/8000 (50%)]	Loss: 2.275985
7839	Train Epoch: 21	[5000/8000 (62%)]	Loss: 2.249304
7840	Train Epoch: 21	[6000/8000 (75%)]	Loss: 2.289252
7841	Train Epoch: 21	[7000/8000 (88%)]	Loss: 2.286429
7842			
7843	Test set:	Avg. loss: 2.2687, Accuracy: 315/2000 (15.750%)	
7844			
7845	New best test_loss:	2.268686294555664!	
7846	Train Epoch: 22	[0/8000 (0%)]	Loss: 2.274972
7847	Train Epoch: 22	[1000/8000 (12%)]	Loss: 2.263340
7848	Train Epoch: 22	[2000/8000 (25%)]	Loss: 2.265209
7849	Train Epoch: 22	[3000/8000 (38%)]	Loss: 2.266768
7850	Train Epoch: 22	[4000/8000 (50%)]	Loss: 2.271912
7851	Train Epoch: 22	[5000/8000 (62%)]	Loss: 2.257662

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7852 Train Epoch: 22 [6000/8000 (75%)] Loss: 2.292533
7853 Train Epoch: 22 [7000/8000 (88%)] Loss: 2.271987
7854
7855 Test set: Avg. loss: 2.2610, Accuracy: 441/2000 (22
.050%)
7856
7857 New best test_loss: 2.2609617710113525!
7858 Train Epoch: 23 [0/8000 (0%)] Loss: 2.269842
7859 Train Epoch: 23 [1000/8000 (12%)] Loss: 2.266361
7860 Train Epoch: 23 [2000/8000 (25%)] Loss: 2.279757
7861 Train Epoch: 23 [3000/8000 (38%)] Loss: 2.261141
7862 Train Epoch: 23 [4000/8000 (50%)] Loss: 2.250805
7863 Train Epoch: 23 [5000/8000 (62%)] Loss: 2.241603
7864 Train Epoch: 23 [6000/8000 (75%)] Loss: 2.263823
7865 Train Epoch: 23 [7000/8000 (88%)] Loss: 2.259775
7866
7867 Test set: Avg. loss: 2.2510, Accuracy: 485/2000 (24
.250%)
7868
7869 New best test_loss: 2.251013994216919!
7870 Train Epoch: 24 [0/8000 (0%)] Loss: 2.272323
7871 Train Epoch: 24 [1000/8000 (12%)] Loss: 2.265100
7872 Train Epoch: 24 [2000/8000 (25%)] Loss: 2.257982
7873 Train Epoch: 24 [3000/8000 (38%)] Loss: 2.251796
7874 Train Epoch: 24 [4000/8000 (50%)] Loss: 2.240629
7875 Train Epoch: 24 [5000/8000 (62%)] Loss: 2.219526
7876 Train Epoch: 24 [6000/8000 (75%)] Loss: 2.255054
7877 Train Epoch: 24 [7000/8000 (88%)] Loss: 2.272722
7878
7879 Test set: Avg. loss: 2.2348, Accuracy: 600/2000 (30
.000%)
7880
7881 New best test_loss: 2.2348251342773438!
7882 Train Epoch: 25 [0/8000 (0%)] Loss: 2.244062
7883 Train Epoch: 25 [1000/8000 (12%)] Loss: 2.228496
7884 Train Epoch: 25 [2000/8000 (25%)] Loss: 2.233846
7885 Train Epoch: 25 [3000/8000 (38%)] Loss: 2.235693
7886 Train Epoch: 25 [4000/8000 (50%)] Loss: 2.224288
7887 Train Epoch: 25 [5000/8000 (62%)] Loss: 2.220346
7888 Train Epoch: 25 [6000/8000 (75%)] Loss: 2.239783
7889 Train Epoch: 25 [7000/8000 (88%)] Loss: 2.236920
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7890
7891 Test set: Avg. loss: 2.2100, Accuracy: 723/2000 (36 .150%)
7892
7893 New best test_loss: 2.2100069522857666!
7894 Train Epoch: 26 [0/8000 (0%)] Loss: 2.213964
7895 Train Epoch: 26 [1000/8000 (12%)] Loss: 2.198855
7896 Train Epoch: 26 [2000/8000 (25%)] Loss: 2.207915
7897 Train Epoch: 26 [3000/8000 (38%)] Loss: 2.207550
7898 Train Epoch: 26 [4000/8000 (50%)] Loss: 2.194850
7899 Train Epoch: 26 [5000/8000 (62%)] Loss: 2.183693
7900 Train Epoch: 26 [6000/8000 (75%)] Loss: 2.241515
7901 Train Epoch: 26 [7000/8000 (88%)] Loss: 2.208613
7902
7903 Test set: Avg. loss: 2.1683, Accuracy: 870/2000 (43 .500%)
7904
7905 New best test_loss: 2.1682748794555664!
7906 Train Epoch: 27 [0/8000 (0%)] Loss: 2.172465
7907 Train Epoch: 27 [1000/8000 (12%)] Loss: 2.144322
7908 Train Epoch: 27 [2000/8000 (25%)] Loss: 2.149683
7909 Train Epoch: 27 [3000/8000 (38%)] Loss: 2.173476
7910 Train Epoch: 27 [4000/8000 (50%)] Loss: 2.150652
7911 Train Epoch: 27 [5000/8000 (62%)] Loss: 2.110974
7912 Train Epoch: 27 [6000/8000 (75%)] Loss: 2.198958
7913 Train Epoch: 27 [7000/8000 (88%)] Loss: 2.156375
7914
7915 Test set: Avg. loss: 2.0977, Accuracy: 895/2000 (44 .750%)
7916
7917 New best test_loss: 2.0976791381835938!
7918 Train Epoch: 28 [0/8000 (0%)] Loss: 2.109859
7919 Train Epoch: 28 [1000/8000 (12%)] Loss: 2.116976
7920 Train Epoch: 28 [2000/8000 (25%)] Loss: 2.083665
7921 Train Epoch: 28 [3000/8000 (38%)] Loss: 2.094801
7922 Train Epoch: 28 [4000/8000 (50%)] Loss: 2.075205
7923 Train Epoch: 28 [5000/8000 (62%)] Loss: 2.010124
7924 Train Epoch: 28 [6000/8000 (75%)] Loss: 2.122320
7925 Train Epoch: 28 [7000/8000 (88%)] Loss: 2.070982
7926
7927 Test set: Avg. loss: 1.9891, Accuracy: 975/2000 (48

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7927 .750%)  
7928  
7929 New best test_loss: 1.9891307353973389!  
7930 Train Epoch: 29 [0/8000 (0%)] Loss: 2.072839  
7931 Train Epoch: 29 [1000/8000 (12%)] Loss: 2.058808  
7932 Train Epoch: 29 [2000/8000 (25%)] Loss: 2.023866  
7933 Train Epoch: 29 [3000/8000 (38%)] Loss: 2.009203  
7934 Train Epoch: 29 [4000/8000 (50%)] Loss: 1.930179  
7935 Train Epoch: 29 [5000/8000 (62%)] Loss: 1.991953  
7936 Train Epoch: 29 [6000/8000 (75%)] Loss: 1.939564  
7937 Train Epoch: 29 [7000/8000 (88%)] Loss: 1.992517  
7938  
7939 Test set: Avg. loss: 1.8337, Accuracy: 1061/2000 (53.050%)  
7940  
7941 New best test_loss: 1.833702564239502!  
7942 Train Epoch: 30 [0/8000 (0%)] Loss: 1.931603  
7943 Train Epoch: 30 [1000/8000 (12%)] Loss: 1.908446  
7944 Train Epoch: 30 [2000/8000 (25%)] Loss: 1.901768  
7945 Train Epoch: 30 [3000/8000 (38%)] Loss: 1.853039  
7946 Train Epoch: 30 [4000/8000 (50%)] Loss: 1.838912  
7947 Train Epoch: 30 [5000/8000 (62%)] Loss: 1.864321  
7948 Train Epoch: 30 [6000/8000 (75%)] Loss: 1.874578  
7949 Train Epoch: 30 [7000/8000 (88%)] Loss: 1.804862  
7950  
7951 Test set: Avg. loss: 1.6594, Accuracy: 1154/2000 (57.700%)  
7952  
7953 New best test_loss: 1.6594362258911133!  
7954 Train Epoch: 31 [0/8000 (0%)] Loss: 1.828887  
7955 Train Epoch: 31 [1000/8000 (12%)] Loss: 1.753272  
7956 Train Epoch: 31 [2000/8000 (25%)] Loss: 1.795722  
7957 Train Epoch: 31 [3000/8000 (38%)] Loss: 1.775127  
7958 Train Epoch: 31 [4000/8000 (50%)] Loss: 1.700460  
7959 Train Epoch: 31 [5000/8000 (62%)] Loss: 1.777562  
7960 Train Epoch: 31 [6000/8000 (75%)] Loss: 1.798411  
7961 Train Epoch: 31 [7000/8000 (88%)] Loss: 1.697862  
7962  
7963 Test set: Avg. loss: 1.4989, Accuracy: 1201/2000 (60.050%)  
7964
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7965 New best test_loss: 1.4988901615142822!
7966 Train Epoch: 32 [0/8000 (0%)] Loss: 1.700747
7967 Train Epoch: 32 [1000/8000 (12%)] Loss: 1.577078
7968 Train Epoch: 32 [2000/8000 (25%)] Loss: 1.543001
7969 Train Epoch: 32 [3000/8000 (38%)] Loss: 1.624455
7970 Train Epoch: 32 [4000/8000 (50%)] Loss: 1.573631
7971 Train Epoch: 32 [5000/8000 (62%)] Loss: 1.546716
7972 Train Epoch: 32 [6000/8000 (75%)] Loss: 1.663598
7973 Train Epoch: 32 [7000/8000 (88%)] Loss: 1.556641
7974
7975 Test set: Avg. loss: 1.3543, Accuracy: 1247/2000 (62.350%)
7976
7977 New best test_loss: 1.3542557954788208!
7978 Train Epoch: 33 [0/8000 (0%)] Loss: 1.591439
7979 Train Epoch: 33 [1000/8000 (12%)] Loss: 1.480610
7980 Train Epoch: 33 [2000/8000 (25%)] Loss: 1.448759
7981 Train Epoch: 33 [3000/8000 (38%)] Loss: 1.613498
7982 Train Epoch: 33 [4000/8000 (50%)] Loss: 1.441158
7983 Train Epoch: 33 [5000/8000 (62%)] Loss: 1.494489
7984 Train Epoch: 33 [6000/8000 (75%)] Loss: 1.545010
7985 Train Epoch: 33 [7000/8000 (88%)] Loss: 1.479672
7986
7987 Test set: Avg. loss: 1.2332, Accuracy: 1343/2000 (67.150%)
7988
7989 New best test_loss: 1.2331665754318237!
7990 Train Epoch: 34 [0/8000 (0%)] Loss: 1.415724
7991 Train Epoch: 34 [1000/8000 (12%)] Loss: 1.342199
7992 Train Epoch: 34 [2000/8000 (25%)] Loss: 1.379716
7993 Train Epoch: 34 [3000/8000 (38%)] Loss: 1.409577
7994 Train Epoch: 34 [4000/8000 (50%)] Loss: 1.378953
7995 Train Epoch: 34 [5000/8000 (62%)] Loss: 1.421895
7996 Train Epoch: 34 [6000/8000 (75%)] Loss: 1.380563
7997 Train Epoch: 34 [7000/8000 (88%)] Loss: 1.336446
7998
7999 Test set: Avg. loss: 1.1273, Accuracy: 1359/2000 (67.950%)
8000
8001 New best test_loss: 1.1273428201675415!
8002 Train Epoch: 35 [0/8000 (0%)] Loss: 1.442291
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8003	Train Epoch: 35	[1000/8000 (12%)]	Loss: 1.345285
8004	Train Epoch: 35	[2000/8000 (25%)]	Loss: 1.437116
8005	Train Epoch: 35	[3000/8000 (38%)]	Loss: 1.423043
8006	Train Epoch: 35	[4000/8000 (50%)]	Loss: 1.364310
8007	Train Epoch: 35	[5000/8000 (62%)]	Loss: 1.446779
8008	Train Epoch: 35	[6000/8000 (75%)]	Loss: 1.256831
8009	Train Epoch: 35	[7000/8000 (88%)]	Loss: 1.303358
8010			
8011	Test set: Avg. loss: 1.0447, Accuracy: 1414/2000 (70.700%)		
8012			
8013	New best test_loss: 1.0447239875793457!		
8014	Train Epoch: 36	[0/8000 (0%)]	Loss: 1.242273
8015	Train Epoch: 36	[1000/8000 (12%)]	Loss: 1.160655
8016	Train Epoch: 36	[2000/8000 (25%)]	Loss: 1.204810
8017	Train Epoch: 36	[3000/8000 (38%)]	Loss: 1.317733
8018	Train Epoch: 36	[4000/8000 (50%)]	Loss: 1.141825
8019	Train Epoch: 36	[5000/8000 (62%)]	Loss: 1.213910
8020	Train Epoch: 36	[6000/8000 (75%)]	Loss: 1.241734
8021	Train Epoch: 36	[7000/8000 (88%)]	Loss: 1.143980
8022			
8023	Test set: Avg. loss: 0.9551, Accuracy: 1451/2000 (72.550%)		
8024			
8025	New best test_loss: 0.9550814032554626!		
8026	Train Epoch: 37	[0/8000 (0%)]	Loss: 1.157824
8027	Train Epoch: 37	[1000/8000 (12%)]	Loss: 1.118820
8028	Train Epoch: 37	[2000/8000 (25%)]	Loss: 1.052069
8029	Train Epoch: 37	[3000/8000 (38%)]	Loss: 1.245576
8030	Train Epoch: 37	[4000/8000 (50%)]	Loss: 1.173221
8031	Train Epoch: 37	[5000/8000 (62%)]	Loss: 1.227312
8032	Train Epoch: 37	[6000/8000 (75%)]	Loss: 1.180741
8033	Train Epoch: 37	[7000/8000 (88%)]	Loss: 1.197054
8034			
8035	Test set: Avg. loss: 0.8981, Accuracy: 1480/2000 (74.000%)		
8036			
8037	New best test_loss: 0.8981262445449829!		
8038	Train Epoch: 38	[0/8000 (0%)]	Loss: 1.249315
8039	Train Epoch: 38	[1000/8000 (12%)]	Loss: 1.125233
8040	Train Epoch: 38	[2000/8000 (25%)]	Loss: 1.082986

8041	Train Epoch: 38	[3000/8000 (38%)]	Loss: 1.246580
8042	Train Epoch: 38	[4000/8000 (50%)]	Loss: 1.038393
8043	Train Epoch: 38	[5000/8000 (62%)]	Loss: 1.126727
8044	Train Epoch: 38	[6000/8000 (75%)]	Loss: 1.076045
8045	Train Epoch: 38	[7000/8000 (88%)]	Loss: 1.098338
8046			
8047	Test set:	Avg. loss: 0.8501, Accuracy: 1509/2000 (75.450%)	
8048			
8049	New best test_loss:	0.8501154780387878!	
8050	Train Epoch: 39	[0/8000 (0%)]	Loss: 1.108890
8051	Train Epoch: 39	[1000/8000 (12%)]	Loss: 0.956544
8052	Train Epoch: 39	[2000/8000 (25%)]	Loss: 0.972788
8053	Train Epoch: 39	[3000/8000 (38%)]	Loss: 1.129412
8054	Train Epoch: 39	[4000/8000 (50%)]	Loss: 1.037485
8055	Train Epoch: 39	[5000/8000 (62%)]	Loss: 1.023901
8056	Train Epoch: 39	[6000/8000 (75%)]	Loss: 1.096284
8057	Train Epoch: 39	[7000/8000 (88%)]	Loss: 0.991586
8058			
8059	Test set:	Avg. loss: 0.7867, Accuracy: 1539/2000 (76.950%)	
8060			
8061	New best test_loss:	0.7867113351821899!	
8062	Train Epoch: 40	[0/8000 (0%)]	Loss: 1.111334
8063	Train Epoch: 40	[1000/8000 (12%)]	Loss: 1.064452
8064	Train Epoch: 40	[2000/8000 (25%)]	Loss: 0.894774
8065	Train Epoch: 40	[3000/8000 (38%)]	Loss: 1.156765
8066	Train Epoch: 40	[4000/8000 (50%)]	Loss: 0.970801
8067	Train Epoch: 40	[5000/8000 (62%)]	Loss: 1.015355
8068	Train Epoch: 40	[6000/8000 (75%)]	Loss: 0.924604
8069	Train Epoch: 40	[7000/8000 (88%)]	Loss: 0.982969
8070			
8071	Test set:	Avg. loss: 0.7810, Accuracy: 1543/2000 (77.150%)	
8072			
8073	New best test_loss:	0.7810352444648743!	
8074	Train Epoch: 41	[0/8000 (0%)]	Loss: 0.839866
8075	Train Epoch: 41	[1000/8000 (12%)]	Loss: 0.926266
8076	Train Epoch: 41	[2000/8000 (25%)]	Loss: 0.847342
8077	Train Epoch: 41	[3000/8000 (38%)]	Loss: 1.042552
8078	Train Epoch: 41	[4000/8000 (50%)]	Loss: 0.934420

8079	Train Epoch: 41 [5000/8000 (62%)]	Loss: 0.971881
8080	Train Epoch: 41 [6000/8000 (75%)]	Loss: 0.947959
8081	Train Epoch: 41 [7000/8000 (88%)]	Loss: 0.869273
8082		
8083	Test set: Avg. loss: 0.7668, Accuracy: 1539/2000 (76.950%)	
8084		
8085	New best test_loss: 0.7668237090110779!	
8086	Train Epoch: 42 [0/8000 (0%)]	Loss: 0.991258
8087	Train Epoch: 42 [1000/8000 (12%)]	Loss: 0.932859
8088	Train Epoch: 42 [2000/8000 (25%)]	Loss: 0.996664
8089	Train Epoch: 42 [3000/8000 (38%)]	Loss: 1.002025
8090	Train Epoch: 42 [4000/8000 (50%)]	Loss: 0.947716
8091	Train Epoch: 42 [5000/8000 (62%)]	Loss: 1.005338
8092	Train Epoch: 42 [6000/8000 (75%)]	Loss: 0.985591
8093	Train Epoch: 42 [7000/8000 (88%)]	Loss: 0.912166
8094		
8095	Test set: Avg. loss: 0.7047, Accuracy: 1578/2000 (78.900%)	
8096		
8097	New best test_loss: 0.7046613097190857!	
8098	Train Epoch: 43 [0/8000 (0%)]	Loss: 0.942055
8099	Train Epoch: 43 [1000/8000 (12%)]	Loss: 0.982370
8100	Train Epoch: 43 [2000/8000 (25%)]	Loss: 0.922616
8101	Train Epoch: 43 [3000/8000 (38%)]	Loss: 1.034672
8102	Train Epoch: 43 [4000/8000 (50%)]	Loss: 0.862027
8103	Train Epoch: 43 [5000/8000 (62%)]	Loss: 1.077941
8104	Train Epoch: 43 [6000/8000 (75%)]	Loss: 0.981436
8105	Train Epoch: 43 [7000/8000 (88%)]	Loss: 1.007467
8106		
8107	Test set: Avg. loss: 0.6798, Accuracy: 1588/2000 (79.400%)	
8108		
8109	New best test_loss: 0.679807722568512!	
8110	Train Epoch: 44 [0/8000 (0%)]	Loss: 0.992228
8111	Train Epoch: 44 [1000/8000 (12%)]	Loss: 0.885305
8112	Train Epoch: 44 [2000/8000 (25%)]	Loss: 0.970122
8113	Train Epoch: 44 [3000/8000 (38%)]	Loss: 0.977152
8114	Train Epoch: 44 [4000/8000 (50%)]	Loss: 0.793572
8115	Train Epoch: 44 [5000/8000 (62%)]	Loss: 1.057434
8116	Train Epoch: 44 [6000/8000 (75%)]	Loss: 0.925180

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8117 Train Epoch: 44 [7000/8000 (88%)] Loss: 0.799788
8118
8119 Test set: Avg. loss: 0.6795, Accuracy: 1576/2000 (78.800%)
8120
8121 New best test_loss: 0.679481565952301!
8122 Train Epoch: 45 [0/8000 (0%)] Loss: 0.827013
8123 Train Epoch: 45 [1000/8000 (12%)] Loss: 0.748643
8124 Train Epoch: 45 [2000/8000 (25%)] Loss: 0.900953
8125 Train Epoch: 45 [3000/8000 (38%)] Loss: 1.008763
8126 Train Epoch: 45 [4000/8000 (50%)] Loss: 0.737077
8127 Train Epoch: 45 [5000/8000 (62%)] Loss: 0.971039
8128 Train Epoch: 45 [6000/8000 (75%)] Loss: 0.863573
8129 Train Epoch: 45 [7000/8000 (88%)] Loss: 0.766947
8130
8131 Test set: Avg. loss: 0.6470, Accuracy: 1599/2000 (79.950%)
8132
8133 New best test_loss: 0.6469945907592773!
8134 Train Epoch: 46 [0/8000 (0%)] Loss: 0.817331
8135 Train Epoch: 46 [1000/8000 (12%)] Loss: 0.847450
8136 Train Epoch: 46 [2000/8000 (25%)] Loss: 0.782258
8137 Train Epoch: 46 [3000/8000 (38%)] Loss: 0.865142
8138 Train Epoch: 46 [4000/8000 (50%)] Loss: 0.741623
8139 Train Epoch: 46 [5000/8000 (62%)] Loss: 0.984745
8140 Train Epoch: 46 [6000/8000 (75%)] Loss: 0.774539
8141 Train Epoch: 46 [7000/8000 (88%)] Loss: 0.865734
8142
8143 Test set: Avg. loss: 0.6210, Accuracy: 1611/2000 (80.550%)
8144
8145 New best test_loss: 0.6210192441940308!
8146 Train Epoch: 47 [0/8000 (0%)] Loss: 0.796524
8147 Train Epoch: 47 [1000/8000 (12%)] Loss: 0.703268
8148 Train Epoch: 47 [2000/8000 (25%)] Loss: 0.762603
8149 Train Epoch: 47 [3000/8000 (38%)] Loss: 1.030606
8150 Train Epoch: 47 [4000/8000 (50%)] Loss: 0.762855
8151 Train Epoch: 47 [5000/8000 (62%)] Loss: 0.896237
8152 Train Epoch: 47 [6000/8000 (75%)] Loss: 0.763777
8153 Train Epoch: 47 [7000/8000 (88%)] Loss: 0.801746
8154
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8155 Test set: Avg. loss: 0.6090, Accuracy: 1622/2000 (81.100%)
8156
8157 New best test_loss: 0.608968198299408!
8158 Train Epoch: 48 [0/8000 (0%)] Loss: 0.843076
8159 Train Epoch: 48 [1000/8000 (12%)] Loss: 0.782453
8160 Train Epoch: 48 [2000/8000 (25%)] Loss: 0.792963
8161 Train Epoch: 48 [3000/8000 (38%)] Loss: 0.939902
8162 Train Epoch: 48 [4000/8000 (50%)] Loss: 0.789240
8163 Train Epoch: 48 [5000/8000 (62%)] Loss: 0.930131
8164 Train Epoch: 48 [6000/8000 (75%)] Loss: 0.811974
8165 Train Epoch: 48 [7000/8000 (88%)] Loss: 0.837122
8166
8167 Test set: Avg. loss: 0.5960, Accuracy: 1644/2000 (82.200%)
8168
8169 New best test_loss: 0.5959896445274353!
8170 Train Epoch: 49 [0/8000 (0%)] Loss: 0.848418
8171 Train Epoch: 49 [1000/8000 (12%)] Loss: 0.735243
8172 Train Epoch: 49 [2000/8000 (25%)] Loss: 0.749789
8173 Train Epoch: 49 [3000/8000 (38%)] Loss: 0.879002
8174 Train Epoch: 49 [4000/8000 (50%)] Loss: 0.763561
8175 Train Epoch: 49 [5000/8000 (62%)] Loss: 1.009243
8176 Train Epoch: 49 [6000/8000 (75%)] Loss: 0.769324
8177 Train Epoch: 49 [7000/8000 (88%)] Loss: 0.888138
8178
8179 Test set: Avg. loss: 0.5867, Accuracy: 1619/2000 (80.950%)
8180
8181 New best test_loss: 0.5867285132408142!
8182 Train Epoch: 50 [0/8000 (0%)] Loss: 0.733499
8183 Train Epoch: 50 [1000/8000 (12%)] Loss: 0.778833
8184 Train Epoch: 50 [2000/8000 (25%)] Loss: 0.663824
8185 Train Epoch: 50 [3000/8000 (38%)] Loss: 1.052001
8186 Train Epoch: 50 [4000/8000 (50%)] Loss: 0.749671
8187 Train Epoch: 50 [5000/8000 (62%)] Loss: 0.948042
8188 Train Epoch: 50 [6000/8000 (75%)] Loss: 0.684119
8189 Train Epoch: 50 [7000/8000 (88%)] Loss: 0.856438
8190
8191 Test set: Avg. loss: 0.5720, Accuracy: 1648/2000 (82.400%)
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8192
8193 New best test_loss: 0.5719643235206604!
8194 Train Epoch: 51 [0/8000 (0%)] Loss: 0.784192
8195 Train Epoch: 51 [1000/8000 (12%)] Loss: 0.669194
8196 Train Epoch: 51 [2000/8000 (25%)] Loss: 0.848218
8197 Train Epoch: 51 [3000/8000 (38%)] Loss: 0.784538
8198 Train Epoch: 51 [4000/8000 (50%)] Loss: 0.847580
8199 Train Epoch: 51 [5000/8000 (62%)] Loss: 0.877737
8200 Train Epoch: 51 [6000/8000 (75%)] Loss: 0.736572
8201 Train Epoch: 51 [7000/8000 (88%)] Loss: 0.665564
8202
8203 Test set: Avg. loss: 0.5700, Accuracy: 1641/2000 (82.050%)
8204
8205 New best test_loss: 0.5700460076332092!
8206 Train Epoch: 52 [0/8000 (0%)] Loss: 0.852675
8207 Train Epoch: 52 [1000/8000 (12%)] Loss: 0.705763
8208 Train Epoch: 52 [2000/8000 (25%)] Loss: 0.721219
8209 Train Epoch: 52 [3000/8000 (38%)] Loss: 0.931965
8210 Train Epoch: 52 [4000/8000 (50%)] Loss: 0.636143
8211 Train Epoch: 52 [5000/8000 (62%)] Loss: 0.869043
8212 Train Epoch: 52 [6000/8000 (75%)] Loss: 0.788276
8213 Train Epoch: 52 [7000/8000 (88%)] Loss: 0.769445
8214
8215 Test set: Avg. loss: 0.5734, Accuracy: 1634/2000 (81.700%)
8216
8217 Train Epoch: 53 [0/8000 (0%)] Loss: 0.723679
8218 Train Epoch: 53 [1000/8000 (12%)] Loss: 0.571564
8219 Train Epoch: 53 [2000/8000 (25%)] Loss: 0.747213
8220 Train Epoch: 53 [3000/8000 (38%)] Loss: 0.828301
8221 Train Epoch: 53 [4000/8000 (50%)] Loss: 0.636801
8222 Train Epoch: 53 [5000/8000 (62%)] Loss: 0.808936
8223 Train Epoch: 53 [6000/8000 (75%)] Loss: 0.769930
8224 Train Epoch: 53 [7000/8000 (88%)] Loss: 0.733715
8225
8226 Test set: Avg. loss: 0.5473, Accuracy: 1660/2000 (83.000%)
8227
8228 New best test_loss: 0.5472986698150635!
8229 Train Epoch: 54 [0/8000 (0%)] Loss: 0.642854
```

8230	Train Epoch: 54	[1000/8000 (12%)]	Loss: 0.711961
8231	Train Epoch: 54	[2000/8000 (25%)]	Loss: 0.715683
8232	Train Epoch: 54	[3000/8000 (38%)]	Loss: 0.792793
8233	Train Epoch: 54	[4000/8000 (50%)]	Loss: 0.625138
8234	Train Epoch: 54	[5000/8000 (62%)]	Loss: 0.839508
8235	Train Epoch: 54	[6000/8000 (75%)]	Loss: 0.835031
8236	Train Epoch: 54	[7000/8000 (88%)]	Loss: 0.774849
8237			
8238	Test set: Avg. loss: 0.5353, Accuracy: 1657/2000 (82.850%)		
8239			
8240	New best test_loss: 0.5353000164031982!		
8241	Train Epoch: 55	[0/8000 (0%)]	Loss: 0.689870
8242	Train Epoch: 55	[1000/8000 (12%)]	Loss: 0.685907
8243	Train Epoch: 55	[2000/8000 (25%)]	Loss: 0.761710
8244	Train Epoch: 55	[3000/8000 (38%)]	Loss: 0.839822
8245	Train Epoch: 55	[4000/8000 (50%)]	Loss: 0.792187
8246	Train Epoch: 55	[5000/8000 (62%)]	Loss: 0.856534
8247	Train Epoch: 55	[6000/8000 (75%)]	Loss: 0.752289
8248	Train Epoch: 55	[7000/8000 (88%)]	Loss: 0.790107
8249			
8250	Test set: Avg. loss: 0.5304, Accuracy: 1668/2000 (83.400%)		
8251			
8252	New best test_loss: 0.5303921103477478!		
8253	Train Epoch: 56	[0/8000 (0%)]	Loss: 0.709610
8254	Train Epoch: 56	[1000/8000 (12%)]	Loss: 0.714203
8255	Train Epoch: 56	[2000/8000 (25%)]	Loss: 0.728609
8256	Train Epoch: 56	[3000/8000 (38%)]	Loss: 0.838733
8257	Train Epoch: 56	[4000/8000 (50%)]	Loss: 0.661915
8258	Train Epoch: 56	[5000/8000 (62%)]	Loss: 0.879969
8259	Train Epoch: 56	[6000/8000 (75%)]	Loss: 0.646691
8260	Train Epoch: 56	[7000/8000 (88%)]	Loss: 0.823560
8261			
8262	Test set: Avg. loss: 0.5486, Accuracy: 1639/2000 (81.950%)		
8263			
8264	Train Epoch: 57	[0/8000 (0%)]	Loss: 0.807706
8265	Train Epoch: 57	[1000/8000 (12%)]	Loss: 0.696216
8266	Train Epoch: 57	[2000/8000 (25%)]	Loss: 0.734961
8267	Train Epoch: 57	[3000/8000 (38%)]	Loss: 0.743476

8268	Train Epoch: 57	[4000/8000 (50%)]	Loss: 0.666753
8269	Train Epoch: 57	[5000/8000 (62%)]	Loss: 0.855249
8270	Train Epoch: 57	[6000/8000 (75%)]	Loss: 0.713533
8271	Train Epoch: 57	[7000/8000 (88%)]	Loss: 0.689541
8272			
8273	Test set:	Avg. loss: 0.5420, Accuracy: 1679/2000 (83.950%)	
8274			
8275	Train Epoch: 58	[0/8000 (0%)]	Loss: 0.703173
8276	Train Epoch: 58	[1000/8000 (12%)]	Loss: 0.665801
8277	Train Epoch: 58	[2000/8000 (25%)]	Loss: 0.739033
8278	Train Epoch: 58	[3000/8000 (38%)]	Loss: 0.848703
8279	Train Epoch: 58	[4000/8000 (50%)]	Loss: 0.775212
8280	Train Epoch: 58	[5000/8000 (62%)]	Loss: 0.940000
8281	Train Epoch: 58	[6000/8000 (75%)]	Loss: 0.643938
8282	Train Epoch: 58	[7000/8000 (88%)]	Loss: 0.642518
8283			
8284	Test set:	Avg. loss: 0.5026, Accuracy: 1693/2000 (84.650%)	
8285			
8286	New best test_loss: 0.5025635957717896!		
8287	Train Epoch: 59	[0/8000 (0%)]	Loss: 0.726041
8288	Train Epoch: 59	[1000/8000 (12%)]	Loss: 0.603747
8289	Train Epoch: 59	[2000/8000 (25%)]	Loss: 0.666530
8290	Train Epoch: 59	[3000/8000 (38%)]	Loss: 0.877578
8291	Train Epoch: 59	[4000/8000 (50%)]	Loss: 0.770178
8292	Train Epoch: 59	[5000/8000 (62%)]	Loss: 0.662214
8293	Train Epoch: 59	[6000/8000 (75%)]	Loss: 0.709188
8294	Train Epoch: 59	[7000/8000 (88%)]	Loss: 0.684069
8295			
8296	Test set:	Avg. loss: 0.5079, Accuracy: 1684/2000 (84.200%)	
8297			
8298	Train Epoch: 60	[0/8000 (0%)]	Loss: 0.531572
8299	Train Epoch: 60	[1000/8000 (12%)]	Loss: 0.635293
8300	Train Epoch: 60	[2000/8000 (25%)]	Loss: 0.735810
8301	Train Epoch: 60	[3000/8000 (38%)]	Loss: 0.804707
8302	Train Epoch: 60	[4000/8000 (50%)]	Loss: 0.564029
8303	Train Epoch: 60	[5000/8000 (62%)]	Loss: 0.937776
8304	Train Epoch: 60	[6000/8000 (75%)]	Loss: 0.731214
8305	Train Epoch: 60	[7000/8000 (88%)]	Loss: 0.634821

8306
8307 Test set: Avg. loss: 0.4918, Accuracy: 1686/2000 (84.300%)
8308
8309 New best test_loss: 0.49175959825515747!
8310 Train Epoch: 61 [0/8000 (0%)] Loss: 0.693803
8311 Train Epoch: 61 [1000/8000 (12%)] Loss: 0.628235
8312 Train Epoch: 61 [2000/8000 (25%)] Loss: 0.661429
8313 Train Epoch: 61 [3000/8000 (38%)] Loss: 0.782733
8314 Train Epoch: 61 [4000/8000 (50%)] Loss: 0.721298
8315 Train Epoch: 61 [5000/8000 (62%)] Loss: 0.705541
8316 Train Epoch: 61 [6000/8000 (75%)] Loss: 0.811875
8317 Train Epoch: 61 [7000/8000 (88%)] Loss: 0.775442
8318
8319 Test set: Avg. loss: 0.4864, Accuracy: 1695/2000 (84.750%)
8320
8321 New best test_loss: 0.48643407225608826!
8322 Train Epoch: 62 [0/8000 (0%)] Loss: 0.720581
8323 Train Epoch: 62 [1000/8000 (12%)] Loss: 0.656096
8324 Train Epoch: 62 [2000/8000 (25%)] Loss: 0.580764
8325 Train Epoch: 62 [3000/8000 (38%)] Loss: 0.817791
8326 Train Epoch: 62 [4000/8000 (50%)] Loss: 0.613426
8327 Train Epoch: 62 [5000/8000 (62%)] Loss: 0.900859
8328 Train Epoch: 62 [6000/8000 (75%)] Loss: 0.680131
8329 Train Epoch: 62 [7000/8000 (88%)] Loss: 0.655789
8330
8331 Test set: Avg. loss: 0.5118, Accuracy: 1678/2000 (83.900%)
8332
8333 Train Epoch: 63 [0/8000 (0%)] Loss: 0.619931
8334 Train Epoch: 63 [1000/8000 (12%)] Loss: 0.653743
8335 Train Epoch: 63 [2000/8000 (25%)] Loss: 0.680248
8336 Train Epoch: 63 [3000/8000 (38%)] Loss: 0.734590
8337 Train Epoch: 63 [4000/8000 (50%)] Loss: 0.757717
8338 Train Epoch: 63 [5000/8000 (62%)] Loss: 0.777161
8339 Train Epoch: 63 [6000/8000 (75%)] Loss: 0.624242
8340 Train Epoch: 63 [7000/8000 (88%)] Loss: 0.663941
8341
8342 Test set: Avg. loss: 0.4727, Accuracy: 1712/2000 (85.600%)

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8343
8344 New best test_loss: 0.47270259261131287!
8345 Train Epoch: 64 [0/8000 (0%)] Loss: 0.616251
8346 Train Epoch: 64 [1000/8000 (12%)] Loss: 0.645299
8347 Train Epoch: 64 [2000/8000 (25%)] Loss: 0.672339
8348 Train Epoch: 64 [3000/8000 (38%)] Loss: 0.776685
8349 Train Epoch: 64 [4000/8000 (50%)] Loss: 0.734942
8350 Train Epoch: 64 [5000/8000 (62%)] Loss: 0.713107
8351 Train Epoch: 64 [6000/8000 (75%)] Loss: 0.754716
8352 Train Epoch: 64 [7000/8000 (88%)] Loss: 0.605709
8353
8354 Test set: Avg. loss: 0.4777, Accuracy: 1701/2000 (85.050%)
8355
8356 Train Epoch: 65 [0/8000 (0%)] Loss: 0.703626
8357 Train Epoch: 65 [1000/8000 (12%)] Loss: 0.649230
8358 Train Epoch: 65 [2000/8000 (25%)] Loss: 0.677468
8359 Train Epoch: 65 [3000/8000 (38%)] Loss: 0.825738
8360 Train Epoch: 65 [4000/8000 (50%)] Loss: 0.784423
8361 Train Epoch: 65 [5000/8000 (62%)] Loss: 0.782629
8362 Train Epoch: 65 [6000/8000 (75%)] Loss: 0.699344
8363 Train Epoch: 65 [7000/8000 (88%)] Loss: 0.625145
8364
8365 Test set: Avg. loss: 0.4859, Accuracy: 1705/2000 (85.250%)
8366
8367 Train Epoch: 66 [0/8000 (0%)] Loss: 0.572960
8368 Train Epoch: 66 [1000/8000 (12%)] Loss: 0.577623
8369 Train Epoch: 66 [2000/8000 (25%)] Loss: 0.688631
8370 Train Epoch: 66 [3000/8000 (38%)] Loss: 0.737867
8371 Train Epoch: 66 [4000/8000 (50%)] Loss: 0.660166
8372 Train Epoch: 66 [5000/8000 (62%)] Loss: 0.798399
8373 Train Epoch: 66 [6000/8000 (75%)] Loss: 0.752730
8374 Train Epoch: 66 [7000/8000 (88%)] Loss: 0.645201
8375
8376 Test set: Avg. loss: 0.4732, Accuracy: 1707/2000 (85.350%)
8377
8378 Train Epoch: 67 [0/8000 (0%)] Loss: 0.666012
8379 Train Epoch: 67 [1000/8000 (12%)] Loss: 0.572966
8380 Train Epoch: 67 [2000/8000 (25%)] Loss: 0.693588
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8381	Train Epoch: 67	[3000/8000 (38%)]	Loss: 0.729234
8382	Train Epoch: 67	[4000/8000 (50%)]	Loss: 0.554070
8383	Train Epoch: 67	[5000/8000 (62%)]	Loss: 0.700331
8384	Train Epoch: 67	[6000/8000 (75%)]	Loss: 0.572522
8385	Train Epoch: 67	[7000/8000 (88%)]	Loss: 0.623034
8386			
8387	Test set:	Avg. loss: 0.4617, Accuracy: 1716/2000 (85.800%)	
8388			
8389	New best test_loss:	0.4617101550102234!	
8390	Train Epoch: 68	[0/8000 (0%)]	Loss: 0.701403
8391	Train Epoch: 68	[1000/8000 (12%)]	Loss: 0.615669
8392	Train Epoch: 68	[2000/8000 (25%)]	Loss: 0.698441
8393	Train Epoch: 68	[3000/8000 (38%)]	Loss: 0.683135
8394	Train Epoch: 68	[4000/8000 (50%)]	Loss: 0.732464
8395	Train Epoch: 68	[5000/8000 (62%)]	Loss: 0.706546
8396	Train Epoch: 68	[6000/8000 (75%)]	Loss: 0.749599
8397	Train Epoch: 68	[7000/8000 (88%)]	Loss: 0.589737
8398			
8399	Test set:	Avg. loss: 0.4706, Accuracy: 1704/2000 (85.200%)	
8400			
8401	Train Epoch: 69	[0/8000 (0%)]	Loss: 0.591202
8402	Train Epoch: 69	[1000/8000 (12%)]	Loss: 0.572437
8403	Train Epoch: 69	[2000/8000 (25%)]	Loss: 0.687883
8404	Train Epoch: 69	[3000/8000 (38%)]	Loss: 0.723546
8405	Train Epoch: 69	[4000/8000 (50%)]	Loss: 0.566805
8406	Train Epoch: 69	[5000/8000 (62%)]	Loss: 0.880494
8407	Train Epoch: 69	[6000/8000 (75%)]	Loss: 0.651977
8408	Train Epoch: 69	[7000/8000 (88%)]	Loss: 0.700128
8409			
8410	Test set:	Avg. loss: 0.4556, Accuracy: 1722/2000 (86.100%)	
8411			
8412	New best test_loss:	0.4556383192539215!	
8413	Train Epoch: 70	[0/8000 (0%)]	Loss: 0.635193
8414	Train Epoch: 70	[1000/8000 (12%)]	Loss: 0.652411
8415	Train Epoch: 70	[2000/8000 (25%)]	Loss: 0.700285
8416	Train Epoch: 70	[3000/8000 (38%)]	Loss: 0.713717
8417	Train Epoch: 70	[4000/8000 (50%)]	Loss: 0.775875
8418	Train Epoch: 70	[5000/8000 (62%)]	Loss: 0.689656

8419	Train Epoch: 70 [6000/8000 (75%)]	Loss: 0.605450
8420	Train Epoch: 70 [7000/8000 (88%)]	Loss: 0.775759
8421		
8422	Test set: Avg. loss: 0.4612, Accuracy: 1715/2000 (85.750%)	
8423		
8424	Train Epoch: 71 [0/8000 (0%)]	Loss: 0.674449
8425	Train Epoch: 71 [1000/8000 (12%)]	Loss: 0.563670
8426	Train Epoch: 71 [2000/8000 (25%)]	Loss: 0.630037
8427	Train Epoch: 71 [3000/8000 (38%)]	Loss: 0.752193
8428	Train Epoch: 71 [4000/8000 (50%)]	Loss: 0.514562
8429	Train Epoch: 71 [5000/8000 (62%)]	Loss: 0.753153
8430	Train Epoch: 71 [6000/8000 (75%)]	Loss: 0.613467
8431	Train Epoch: 71 [7000/8000 (88%)]	Loss: 0.647553
8432		
8433	Test set: Avg. loss: 0.4565, Accuracy: 1707/2000 (85.350%)	
8434		
8435	Train Epoch: 72 [0/8000 (0%)]	Loss: 0.581748
8436	Train Epoch: 72 [1000/8000 (12%)]	Loss: 0.562694
8437	Train Epoch: 72 [2000/8000 (25%)]	Loss: 0.650081
8438	Train Epoch: 72 [3000/8000 (38%)]	Loss: 0.813163
8439	Train Epoch: 72 [4000/8000 (50%)]	Loss: 0.663513
8440	Train Epoch: 72 [5000/8000 (62%)]	Loss: 0.784541
8441	Train Epoch: 72 [6000/8000 (75%)]	Loss: 0.683017
8442	Train Epoch: 72 [7000/8000 (88%)]	Loss: 0.573044
8443		
8444	Test set: Avg. loss: 0.4440, Accuracy: 1719/2000 (85.950%)	
8445		
8446	New best test_loss: 0.4440421164035797!	
8447	Train Epoch: 73 [0/8000 (0%)]	Loss: 0.518369
8448	Train Epoch: 73 [1000/8000 (12%)]	Loss: 0.510128
8449	Train Epoch: 73 [2000/8000 (25%)]	Loss: 0.491419
8450	Train Epoch: 73 [3000/8000 (38%)]	Loss: 0.695890
8451	Train Epoch: 73 [4000/8000 (50%)]	Loss: 0.774469
8452	Train Epoch: 73 [5000/8000 (62%)]	Loss: 0.719181
8453	Train Epoch: 73 [6000/8000 (75%)]	Loss: 0.584805
8454	Train Epoch: 73 [7000/8000 (88%)]	Loss: 0.606493
8455		
8456	Test set: Avg. loss: 0.4314, Accuracy: 1735/2000 (

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8456 86.750%)  
8457  
8458 New best test_loss: 0.4313744306564331!  
8459 Train Epoch: 74 [0/8000 (0%)] Loss: 0.539450  
8460 Train Epoch: 74 [1000/8000 (12%)] Loss: 0.562943  
8461 Train Epoch: 74 [2000/8000 (25%)] Loss: 0.521824  
8462 Train Epoch: 74 [3000/8000 (38%)] Loss: 0.699248  
8463 Train Epoch: 74 [4000/8000 (50%)] Loss: 0.607549  
8464 Train Epoch: 74 [5000/8000 (62%)] Loss: 0.673042  
8465 Train Epoch: 74 [6000/8000 (75%)] Loss: 0.662155  
8466 Train Epoch: 74 [7000/8000 (88%)] Loss: 0.673546  
8467  
8468 Test set: Avg. loss: 0.4351, Accuracy: 1733/2000 (86.650%)  
8469  
8470 Train Epoch: 75 [0/8000 (0%)] Loss: 0.627493  
8471 Train Epoch: 75 [1000/8000 (12%)] Loss: 0.521519  
8472 Train Epoch: 75 [2000/8000 (25%)] Loss: 0.488599  
8473 Train Epoch: 75 [3000/8000 (38%)] Loss: 0.680445  
8474 Train Epoch: 75 [4000/8000 (50%)] Loss: 0.665571  
8475 Train Epoch: 75 [5000/8000 (62%)] Loss: 0.777604  
8476 Train Epoch: 75 [6000/8000 (75%)] Loss: 0.631184  
8477 Train Epoch: 75 [7000/8000 (88%)] Loss: 0.706788  
8478  
8479 Test set: Avg. loss: 0.4330, Accuracy: 1741/2000 (87.050%)  
8480  
8481 Train Epoch: 76 [0/8000 (0%)] Loss: 0.518304  
8482 Train Epoch: 76 [1000/8000 (12%)] Loss: 0.475487  
8483 Train Epoch: 76 [2000/8000 (25%)] Loss: 0.555055  
8484 Train Epoch: 76 [3000/8000 (38%)] Loss: 0.733601  
8485 Train Epoch: 76 [4000/8000 (50%)] Loss: 0.614819  
8486 Train Epoch: 76 [5000/8000 (62%)] Loss: 0.721301  
8487 Train Epoch: 76 [6000/8000 (75%)] Loss: 0.675103  
8488 Train Epoch: 76 [7000/8000 (88%)] Loss: 0.743500  
8489  
8490 Test set: Avg. loss: 0.4236, Accuracy: 1736/2000 (86.800%)  
8491  
8492 New best test_loss: 0.42358309030532837!  
8493 Train Epoch: 77 [0/8000 (0%)] Loss: 0.549533
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8494	Train Epoch: 77	[1000/8000 (12%)]	Loss: 0.444849
8495	Train Epoch: 77	[2000/8000 (25%)]	Loss: 0.604320
8496	Train Epoch: 77	[3000/8000 (38%)]	Loss: 0.646475
8497	Train Epoch: 77	[4000/8000 (50%)]	Loss: 0.568359
8498	Train Epoch: 77	[5000/8000 (62%)]	Loss: 0.652967
8499	Train Epoch: 77	[6000/8000 (75%)]	Loss: 0.786391
8500	Train Epoch: 77	[7000/8000 (88%)]	Loss: 0.605599
8501			
8502	Test set:	Avg. loss: 0.4259, Accuracy: 1737/2000 (86.850%)	
8503			
8504	Train Epoch: 78	[0/8000 (0%)]	Loss: 0.446731
8505	Train Epoch: 78	[1000/8000 (12%)]	Loss: 0.569503
8506	Train Epoch: 78	[2000/8000 (25%)]	Loss: 0.554268
8507	Train Epoch: 78	[3000/8000 (38%)]	Loss: 0.657303
8508	Train Epoch: 78	[4000/8000 (50%)]	Loss: 0.617737
8509	Train Epoch: 78	[5000/8000 (62%)]	Loss: 0.690755
8510	Train Epoch: 78	[6000/8000 (75%)]	Loss: 0.543226
8511	Train Epoch: 78	[7000/8000 (88%)]	Loss: 0.670773
8512			
8513	Test set:	Avg. loss: 0.4416, Accuracy: 1728/2000 (86.400%)	
8514			
8515	Train Epoch: 79	[0/8000 (0%)]	Loss: 0.567734
8516	Train Epoch: 79	[1000/8000 (12%)]	Loss: 0.525247
8517	Train Epoch: 79	[2000/8000 (25%)]	Loss: 0.643621
8518	Train Epoch: 79	[3000/8000 (38%)]	Loss: 0.654101
8519	Train Epoch: 79	[4000/8000 (50%)]	Loss: 0.629579
8520	Train Epoch: 79	[5000/8000 (62%)]	Loss: 0.715051
8521	Train Epoch: 79	[6000/8000 (75%)]	Loss: 0.537309
8522	Train Epoch: 79	[7000/8000 (88%)]	Loss: 0.508484
8523			
8524	Test set:	Avg. loss: 0.4137, Accuracy: 1738/2000 (86.900%)	
8525			
8526	New best test_loss: 0.4136946201324463!		
8527	Train Epoch: 80	[0/8000 (0%)]	Loss: 0.674845
8528	Train Epoch: 80	[1000/8000 (12%)]	Loss: 0.565581
8529	Train Epoch: 80	[2000/8000 (25%)]	Loss: 0.646353
8530	Train Epoch: 80	[3000/8000 (38%)]	Loss: 0.788939
8531	Train Epoch: 80	[4000/8000 (50%)]	Loss: 0.625815

8532	Train Epoch: 80	[5000/8000 (62%)]	Loss: 0.817914
8533	Train Epoch: 80	[6000/8000 (75%)]	Loss: 0.729943
8534	Train Epoch: 80	[7000/8000 (88%)]	Loss: 0.667841
8535			
8536	Test set:	Avg. loss: 0.4173, Accuracy: 1745/2000 (87.250%)	
8537			
8538	Train Epoch: 81	[0/8000 (0%)]	Loss: 0.514089
8539	Train Epoch: 81	[1000/8000 (12%)]	Loss: 0.545800
8540	Train Epoch: 81	[2000/8000 (25%)]	Loss: 0.603631
8541	Train Epoch: 81	[3000/8000 (38%)]	Loss: 0.690629
8542	Train Epoch: 81	[4000/8000 (50%)]	Loss: 0.603371
8543	Train Epoch: 81	[5000/8000 (62%)]	Loss: 0.674270
8544	Train Epoch: 81	[6000/8000 (75%)]	Loss: 0.584834
8545	Train Epoch: 81	[7000/8000 (88%)]	Loss: 0.542493
8546			
8547	Test set:	Avg. loss: 0.4100, Accuracy: 1742/2000 (87.100%)	
8548			
8549	New best test_loss:	0.4100092649459839!	
8550	Train Epoch: 82	[0/8000 (0%)]	Loss: 0.512311
8551	Train Epoch: 82	[1000/8000 (12%)]	Loss: 0.686421
8552	Train Epoch: 82	[2000/8000 (25%)]	Loss: 0.595002
8553	Train Epoch: 82	[3000/8000 (38%)]	Loss: 0.596174
8554	Train Epoch: 82	[4000/8000 (50%)]	Loss: 0.544008
8555	Train Epoch: 82	[5000/8000 (62%)]	Loss: 0.708335
8556	Train Epoch: 82	[6000/8000 (75%)]	Loss: 0.629555
8557	Train Epoch: 82	[7000/8000 (88%)]	Loss: 0.703125
8558			
8559	Test set:	Avg. loss: 0.4000, Accuracy: 1757/2000 (87.850%)	
8560			
8561	New best test_loss:	0.3999559283256531!	
8562	Train Epoch: 83	[0/8000 (0%)]	Loss: 0.525459
8563	Train Epoch: 83	[1000/8000 (12%)]	Loss: 0.471226
8564	Train Epoch: 83	[2000/8000 (25%)]	Loss: 0.520917
8565	Train Epoch: 83	[3000/8000 (38%)]	Loss: 0.709185
8566	Train Epoch: 83	[4000/8000 (50%)]	Loss: 0.579702
8567	Train Epoch: 83	[5000/8000 (62%)]	Loss: 0.640863
8568	Train Epoch: 83	[6000/8000 (75%)]	Loss: 0.608185
8569	Train Epoch: 83	[7000/8000 (88%)]	Loss: 0.556702

8570
8571 Test set: Avg. loss: 0.4184, Accuracy: 1740/2000 (87.000%)
8572
8573 Train Epoch: 84 [0/8000 (0%)] Loss: 0.573157
8574 Train Epoch: 84 [1000/8000 (12%)] Loss: 0.485061
8575 Train Epoch: 84 [2000/8000 (25%)] Loss: 0.592164
8576 Train Epoch: 84 [3000/8000 (38%)] Loss: 0.752476
8577 Train Epoch: 84 [4000/8000 (50%)] Loss: 0.594981
8578 Train Epoch: 84 [5000/8000 (62%)] Loss: 0.674320
8579 Train Epoch: 84 [6000/8000 (75%)] Loss: 0.582046
8580 Train Epoch: 84 [7000/8000 (88%)] Loss: 0.608366
8581
8582 Test set: Avg. loss: 0.4057, Accuracy: 1745/2000 (87.250%)
8583
8584 Train Epoch: 85 [0/8000 (0%)] Loss: 0.460485
8585 Train Epoch: 85 [1000/8000 (12%)] Loss: 0.681622
8586 Train Epoch: 85 [2000/8000 (25%)] Loss: 0.644622
8587 Train Epoch: 85 [3000/8000 (38%)] Loss: 0.769029
8588 Train Epoch: 85 [4000/8000 (50%)] Loss: 0.555163
8589 Train Epoch: 85 [5000/8000 (62%)] Loss: 0.684441
8590 Train Epoch: 85 [6000/8000 (75%)] Loss: 0.637503
8591 Train Epoch: 85 [7000/8000 (88%)] Loss: 0.584078
8592
8593 Test set: Avg. loss: 0.3981, Accuracy: 1750/2000 (87.500%)
8594
8595 New best test_loss: 0.3980506658554077!
8596 Train Epoch: 86 [0/8000 (0%)] Loss: 0.607865
8597 Train Epoch: 86 [1000/8000 (12%)] Loss: 0.585176
8598 Train Epoch: 86 [2000/8000 (25%)] Loss: 0.542346
8599 Train Epoch: 86 [3000/8000 (38%)] Loss: 0.645427
8600 Train Epoch: 86 [4000/8000 (50%)] Loss: 0.654361
8601 Train Epoch: 86 [5000/8000 (62%)] Loss: 0.550659
8602 Train Epoch: 86 [6000/8000 (75%)] Loss: 0.541407
8603 Train Epoch: 86 [7000/8000 (88%)] Loss: 0.615223
8604
8605 Test set: Avg. loss: 0.3977, Accuracy: 1760/2000 (88.000%)
8606

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8607 New best test_loss: 0.39768216013908386!
8608 Train Epoch: 87 [0/8000 (0%)] Loss: 0.606757
8609 Train Epoch: 87 [1000/8000 (12%)] Loss: 0.544350
8610 Train Epoch: 87 [2000/8000 (25%)] Loss: 0.528789
8611 Train Epoch: 87 [3000/8000 (38%)] Loss: 0.631094
8612 Train Epoch: 87 [4000/8000 (50%)] Loss: 0.447071
8613 Train Epoch: 87 [5000/8000 (62%)] Loss: 0.721993
8614 Train Epoch: 87 [6000/8000 (75%)] Loss: 0.590252
8615 Train Epoch: 87 [7000/8000 (88%)] Loss: 0.503201
8616
8617 Test set: Avg. loss: 0.4020, Accuracy: 1749/2000 (87.450%)
8618
8619 Train Epoch: 88 [0/8000 (0%)] Loss: 0.509203
8620 Train Epoch: 88 [1000/8000 (12%)] Loss: 0.581240
8621 Train Epoch: 88 [2000/8000 (25%)] Loss: 0.592899
8622 Train Epoch: 88 [3000/8000 (38%)] Loss: 0.646834
8623 Train Epoch: 88 [4000/8000 (50%)] Loss: 0.553308
8624 Train Epoch: 88 [5000/8000 (62%)] Loss: 0.683123
8625 Train Epoch: 88 [6000/8000 (75%)] Loss: 0.608280
8626 Train Epoch: 88 [7000/8000 (88%)] Loss: 0.580541
8627
8628 Test set: Avg. loss: 0.3887, Accuracy: 1761/2000 (88.050%)
8629
8630 New best test_loss: 0.3887409269809723!
8631 Train Epoch: 89 [0/8000 (0%)] Loss: 0.576370
8632 Train Epoch: 89 [1000/8000 (12%)] Loss: 0.420341
8633 Train Epoch: 89 [2000/8000 (25%)] Loss: 0.595136
8634 Train Epoch: 89 [3000/8000 (38%)] Loss: 0.748695
8635 Train Epoch: 89 [4000/8000 (50%)] Loss: 0.569226
8636 Train Epoch: 89 [5000/8000 (62%)] Loss: 0.562531
8637 Train Epoch: 89 [6000/8000 (75%)] Loss: 0.684953
8638 Train Epoch: 89 [7000/8000 (88%)] Loss: 0.573099
8639
8640 Test set: Avg. loss: 0.3946, Accuracy: 1760/2000 (88.000%)
8641
8642 Train Epoch: 90 [0/8000 (0%)] Loss: 0.546467
8643 Train Epoch: 90 [1000/8000 (12%)] Loss: 0.523632
8644 Train Epoch: 90 [2000/8000 (25%)] Loss: 0.694726
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8645	Train Epoch: 90	[3000/8000 (38%)]	Loss: 0.551495
8646	Train Epoch: 90	[4000/8000 (50%)]	Loss: 0.628576
8647	Train Epoch: 90	[5000/8000 (62%)]	Loss: 0.679809
8648	Train Epoch: 90	[6000/8000 (75%)]	Loss: 0.539627
8649	Train Epoch: 90	[7000/8000 (88%)]	Loss: 0.519924
8650			
8651	Test set: Avg. loss: 0.3907, Accuracy: 1759/2000 (87.950%)		
8652			
8653	Train Epoch: 91	[0/8000 (0%)]	Loss: 0.565967
8654	Train Epoch: 91	[1000/8000 (12%)]	Loss: 0.483518
8655	Train Epoch: 91	[2000/8000 (25%)]	Loss: 0.593991
8656	Train Epoch: 91	[3000/8000 (38%)]	Loss: 0.682393
8657	Train Epoch: 91	[4000/8000 (50%)]	Loss: 0.540375
8658	Train Epoch: 91	[5000/8000 (62%)]	Loss: 0.676142
8659	Train Epoch: 91	[6000/8000 (75%)]	Loss: 0.675493
8660	Train Epoch: 91	[7000/8000 (88%)]	Loss: 0.670875
8661			
8662	Test set: Avg. loss: 0.3829, Accuracy: 1758/2000 (87.900%)		
8663			
8664	New best test_loss: 0.38292816281318665!		
8665	Train Epoch: 92	[0/8000 (0%)]	Loss: 0.560386
8666	Train Epoch: 92	[1000/8000 (12%)]	Loss: 0.534648
8667	Train Epoch: 92	[2000/8000 (25%)]	Loss: 0.545091
8668	Train Epoch: 92	[3000/8000 (38%)]	Loss: 0.660693
8669	Train Epoch: 92	[4000/8000 (50%)]	Loss: 0.508736
8670	Train Epoch: 92	[5000/8000 (62%)]	Loss: 0.664059
8671	Train Epoch: 92	[6000/8000 (75%)]	Loss: 0.423652
8672	Train Epoch: 92	[7000/8000 (88%)]	Loss: 0.686575
8673			
8674	Test set: Avg. loss: 0.3921, Accuracy: 1752/2000 (87.600%)		
8675			
8676	Train Epoch: 93	[0/8000 (0%)]	Loss: 0.580219
8677	Train Epoch: 93	[1000/8000 (12%)]	Loss: 0.378517
8678	Train Epoch: 93	[2000/8000 (25%)]	Loss: 0.542856
8679	Train Epoch: 93	[3000/8000 (38%)]	Loss: 0.646613
8680	Train Epoch: 93	[4000/8000 (50%)]	Loss: 0.691004
8681	Train Epoch: 93	[5000/8000 (62%)]	Loss: 0.676887
8682	Train Epoch: 93	[6000/8000 (75%)]	Loss: 0.574249

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8683 Train Epoch: 93 [7000/8000 (88%)] Loss: 0.502668
8684
8685 Test set: Avg. loss: 0.3855, Accuracy: 1752/2000 (87.600%)
8686
8687 Train Epoch: 94 [0/8000 (0%)] Loss: 0.599819
8688 Train Epoch: 94 [1000/8000 (12%)] Loss: 0.421037
8689 Train Epoch: 94 [2000/8000 (25%)] Loss: 0.668586
8690 Train Epoch: 94 [3000/8000 (38%)] Loss: 0.644969
8691 Train Epoch: 94 [4000/8000 (50%)] Loss: 0.577208
8692 Train Epoch: 94 [5000/8000 (62%)] Loss: 0.546739
8693 Train Epoch: 94 [6000/8000 (75%)] Loss: 0.624483
8694 Train Epoch: 94 [7000/8000 (88%)] Loss: 0.512328
8695
8696 Test set: Avg. loss: 0.3770, Accuracy: 1763/2000 (88.150%)
8697
8698 New best test_loss: 0.3769671320915222!
8699 Train Epoch: 95 [0/8000 (0%)] Loss: 0.438540
8700 Train Epoch: 95 [1000/8000 (12%)] Loss: 0.550833
8701 Train Epoch: 95 [2000/8000 (25%)] Loss: 0.484006
8702 Train Epoch: 95 [3000/8000 (38%)] Loss: 0.691144
8703 Train Epoch: 95 [4000/8000 (50%)] Loss: 0.517094
8704 Train Epoch: 95 [5000/8000 (62%)] Loss: 0.629936
8705 Train Epoch: 95 [6000/8000 (75%)] Loss: 0.516206
8706 Train Epoch: 95 [7000/8000 (88%)] Loss: 0.680426
8707
8708 Test set: Avg. loss: 0.3891, Accuracy: 1758/2000 (87.900%)
8709
8710 Train Epoch: 96 [0/8000 (0%)] Loss: 0.527367
8711 Train Epoch: 96 [1000/8000 (12%)] Loss: 0.597422
8712 Train Epoch: 96 [2000/8000 (25%)] Loss: 0.625731
8713 Train Epoch: 96 [3000/8000 (38%)] Loss: 0.707000
8714 Train Epoch: 96 [4000/8000 (50%)] Loss: 0.474565
8715 Train Epoch: 96 [5000/8000 (62%)] Loss: 0.692814
8716 Train Epoch: 96 [6000/8000 (75%)] Loss: 0.461523
8717 Train Epoch: 96 [7000/8000 (88%)] Loss: 0.513930
8718
8719 Test set: Avg. loss: 0.3674, Accuracy: 1772/2000 (88.600%)
```

8720
8721 New best test_loss: 0.36736181378364563!
8722 Train Epoch: 97 [0/8000 (0%)] Loss: 0.524355
8723 Train Epoch: 97 [1000/8000 (12%)] Loss: 0.490495
8724 Train Epoch: 97 [2000/8000 (25%)] Loss: 0.443483
8725 Train Epoch: 97 [3000/8000 (38%)] Loss: 0.551833
8726 Train Epoch: 97 [4000/8000 (50%)] Loss: 0.583487
8727 Train Epoch: 97 [5000/8000 (62%)] Loss: 0.637837
8728 Train Epoch: 97 [6000/8000 (75%)] Loss: 0.572349
8729 Train Epoch: 97 [7000/8000 (88%)] Loss: 0.514944
8730
8731 Test set: Avg. loss: 0.3839, Accuracy: 1759/2000 (87.950%)
8732
8733 Train Epoch: 98 [0/8000 (0%)] Loss: 0.409084
8734 Train Epoch: 98 [1000/8000 (12%)] Loss: 0.545534
8735 Train Epoch: 98 [2000/8000 (25%)] Loss: 0.543995
8736 Train Epoch: 98 [3000/8000 (38%)] Loss: 0.757972
8737 Train Epoch: 98 [4000/8000 (50%)] Loss: 0.494538
8738 Train Epoch: 98 [5000/8000 (62%)] Loss: 0.509663
8739 Train Epoch: 98 [6000/8000 (75%)] Loss: 0.507702
8740 Train Epoch: 98 [7000/8000 (88%)] Loss: 0.731013
8741
8742 Test set: Avg. loss: 0.3677, Accuracy: 1769/2000 (88.450%)
8743
8744 Train Epoch: 99 [0/8000 (0%)] Loss: 0.563567
8745 Train Epoch: 99 [1000/8000 (12%)] Loss: 0.416293
8746 Train Epoch: 99 [2000/8000 (25%)] Loss: 0.601678
8747 Train Epoch: 99 [3000/8000 (38%)] Loss: 0.640987
8748 Train Epoch: 99 [4000/8000 (50%)] Loss: 0.520579
8749 Train Epoch: 99 [5000/8000 (62%)] Loss: 0.593307
8750 Train Epoch: 99 [6000/8000 (75%)] Loss: 0.567030
8751 Train Epoch: 99 [7000/8000 (88%)] Loss: 0.597584
8752
8753 Test set: Avg. loss: 0.3662, Accuracy: 1770/2000 (88.500%)
8754
8755 New best test_loss: 0.36623984575271606!
8756 Train Epoch: 100 [0/8000 (0%)] Loss: 0.517506
8757 Train Epoch: 100 [1000/8000 (12%)] Loss: 0.420270

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8758 Train Epoch: 100 [2000/8000 (25%)] Loss: 0.559528
8759 Train Epoch: 100 [3000/8000 (38%)] Loss: 0.580091
8760 Train Epoch: 100 [4000/8000 (50%)] Loss: 0.503698
8761 Train Epoch: 100 [5000/8000 (62%)] Loss: 0.667537
8762 Train Epoch: 100 [6000/8000 (75%)] Loss: 0.530617
8763 Train Epoch: 100 [7000/8000 (88%)] Loss: 0.581547
8764
8765 Test set: Avg. loss: 0.3698, Accuracy: 1770/2000 (88.500%)
8766
8767 {'AG': {0.1: 0.13159504532814026, 1: 0.11364486813545227, 10: 0.11924078315496445}, 'LP': {0.1: 0.463492751121521, 1: 0.3207367956638336, 10: 0.1633053421974182}, 'IS': {0.1: 0.37200284004211426, 1: 0.44064396619796753, 10: 0.36623984575271606}}
8768
8769 Process finished with exit code 0
8770
```