

```
1 "D:\Coding\C++ projects\cudaNN\cmake-build-release-
  cuda-chain\cudaNN.exe"
2 RESIZED And Initd
3 Epoch: 0
4 Progress:          0% Correct Percentage:          0%
5 Progress: 1.66667% Correct Percentage: 9.69031%
6 Progress: 3.33333% Correct Percentage: 9.29535%
7 Progress:          5% Correct Percentage: 9.93002%
8 Progress: 6.66667% Correct Percentage: 10.4974%
9 Progress: 8.33333% Correct Percentage: 12.2775%
10 Progress:         10% Correct Percentage: 15.3308%
11 Progress: 11.6667% Correct Percentage: 19.1258%
12 Progress: 13.3333% Correct Percentage: 22.7222%
13 Progress:         15% Correct Percentage: 26.9415%
14 Progress: 16.6667% Correct Percentage: 30.8869%
15 Progress: 18.3333% Correct Percentage: 34.3878%
16 Progress:         20% Correct Percentage: 37.6552%
17 Progress: 21.6667% Correct Percentage: 40.6276%
18 Progress: 23.3333% Correct Percentage: 43.3112%
19 Progress:         25% Correct Percentage: 45.597%
20 Progress: 26.6667% Correct Percentage: 48.0782%
21 Progress: 28.3333% Correct Percentage: 50.1323%
22 Progress:         30% Correct Percentage: 52.0027%
23 Progress: 31.6667% Correct Percentage: 53.9445%
24 Progress: 33.3333% Correct Percentage: 55.6022%
25 Progress:         35% Correct Percentage: 57.0544%
26 Progress: 36.6667% Correct Percentage: 58.5655%
27 Progress: 38.3333% Correct Percentage: 59.7887%
28 Progress:         40% Correct Percentage: 61.0058%
29 Progress: 41.6667% Correct Percentage: 61.9735%
30 Progress: 43.3333% Correct Percentage: 63.036%
31 Progress:         45% Correct Percentage: 63.9643%
32 Progress: 46.6667% Correct Percentage: 64.8477%
33 Progress: 48.3333% Correct Percentage: 65.7117%
34 Progress: 48.3333% Correct Percentage: 65.7115%
35 Progress:         50% Correct Percentage: 66.4411%
36 Progress: 51.6667% Correct Percentage: 67.1269%
37 Progress: 53.3333% Correct Percentage: 67.7541%
38 Progress:         55% Correct Percentage: 68.3434%
39 Progress: 56.6667% Correct Percentage: 69.0186%
40 Progress: 58.3333% Correct Percentage: 69.6237%
```

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41 Progress:      60% Correct Percentage: 70.2203%
42 Progress: 61.6667% Correct Percentage: 70.817%
43 Progress: 63.3333% Correct Percentage: 71.2639%
44 Progress:      65% Correct Percentage: 71.7623%
45 Progress: 66.6667% Correct Percentage: 72.2382%
46 Progress: 68.3333% Correct Percentage: 72.6982%
47 Progress:      70% Correct Percentage: 73.1054%
48 Progress: 71.6667% Correct Percentage: 73.4913%
49 Progress: 73.3333% Correct Percentage: 73.9142%
50 Progress:      75% Correct Percentage: 74.3117%
51 Progress: 76.6667% Correct Percentage: 74.6158%
52 Progress: 78.3333% Correct Percentage: 74.9707%
53 Progress:      80% Correct Percentage: 75.2839%
54 Progress: 81.6667% Correct Percentage: 75.6393%
55 Progress: 83.3333% Correct Percentage: 75.9265%
56 Progress:      85% Correct Percentage: 76.2162%
57 Progress: 86.6667% Correct Percentage: 76.5428%
58 Progress: 88.3333% Correct Percentage: 76.8004%
59 Progress:      90% Correct Percentage: 77.0708%
60 Progress: 91.6667% Correct Percentage: 77.3386%
61 Progress: 93.3333% Correct Percentage: 77.6308%
62 Progress:      95% Correct Percentage: 77.9004%
63 Progress: 96.6667% Correct Percentage: 78.1797%
64 Progress: 98.3333% Correct Percentage: 78.48%
65 Finish Training 60000 Data
66 With Accuracy: 78.765%
67 Progress:      0% Correct Percentage: 100%
68 Progress:      10% Correct Percentage: 91.5085%
69 Progress:      20% Correct Percentage: 89.5052%
70 Progress:      30% Correct Percentage: 89.6701%
71 Progress:      40% Correct Percentage: 89.5026%
72 Progress:      50% Correct Percentage: 89.5021%
73 Progress:      60% Correct Percentage: 90.1516%
74 Progress:      70% Correct Percentage: 90.6442%
75 Progress:      80% Correct Percentage: 91.1886%
76 Progress:      90% Correct Percentage: 91.812%
77 Finish Testing 10000 Data
78 With Accuracy: 91.91%
79 Epoch: 1
80 Progress:      0% Correct Percentage: 100%
81 Progress: 1.66667% Correct Percentage: 92.3077%

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82	Progress: 3.33333%	Correct	Percentage: 92.054%
83	Progress: 5%	Correct	Percentage: 92.6025%
84	Progress: 6.66667%	Correct	Percentage: 93.0517%
85	Progress: 8.33333%	Correct	Percentage: 93.0814%
86	Progress: 10%	Correct	Percentage: 93.1345%
87	Progress: 11.6667%	Correct	Percentage: 93.3581%
88	Progress: 13.3333%	Correct	Percentage: 93.1259%
89	Progress: 15%	Correct	Percentage: 92.9563%
90	Progress: 16.6667%	Correct	Percentage: 93.0007%
91	Progress: 18.3333%	Correct	Percentage: 93.1824%
92	Progress: 20%	Correct	Percentage: 93.1922%
93	Progress: 21.6667%	Correct	Percentage: 93.1082%
94	Progress: 23.3333%	Correct	Percentage: 93.0862%
95	Progress: 25%	Correct	Percentage: 92.9338%
96	Progress: 26.6667%	Correct	Percentage: 92.9754%
97	Progress: 28.3333%	Correct	Percentage: 92.9651%
98	Progress: 30%	Correct	Percentage: 92.9393%
99	Progress: 31.6667%	Correct	Percentage: 93.0372%
100	Progress: 33.3333%	Correct	Percentage: 93.1103%
101	Progress: 35%	Correct	Percentage: 93.1384%
102	Progress: 36.6667%	Correct	Percentage: 93.2276%
103	Progress: 38.3333%	Correct	Percentage: 93.2133%
104	Progress: 40%	Correct	Percentage: 93.2336%
105	Progress: 41.6667%	Correct	Percentage: 93.2123%
106	Progress: 43.3333%	Correct	Percentage: 93.2579%
107	Progress: 45%	Correct	Percentage: 93.2558%
108	Progress: 46.6667%	Correct	Percentage: 93.2717%
109	Progress: 48.3333%	Correct	Percentage: 93.3071%
110	Progress: 50%	Correct	Percentage: 93.2802%
111	Progress: 51.6667%	Correct	Percentage: 93.2905%
112	Progress: 53.3333%	Correct	Percentage: 93.2596%
113	Progress: 55%	Correct	Percentage: 93.279%
114	Progress: 56.6667%	Correct	Percentage: 93.3414%
115	Progress: 58.3333%	Correct	Percentage: 93.3602%
116	Progress: 60%	Correct	Percentage: 93.4252%
117	Progress: 61.6667%	Correct	Percentage: 93.4759%
118	Progress: 63.3333%	Correct	Percentage: 93.4449%
119	Progress: 65%	Correct	Percentage: 93.4873%
120	Progress: 66.6667%	Correct	Percentage: 93.4977%
121	Progress: 68.3333%	Correct	Percentage: 93.5343%
122	Progress: 70%	Correct	Percentage: 93.524%

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123 Progress: 71.6667% Correct Percentage: 93.5002%
124 Progress: 73.3333% Correct Percentage: 93.5388%
125 Progress:      75% Correct Percentage: 93.5646%
126 Progress: 76.6667% Correct Percentage: 93.5523%
127 Progress: 78.3333% Correct Percentage: 93.564%
128 Progress:      80% Correct Percentage: 93.5585%
129 Progress: 81.6667% Correct Percentage: 93.5797%
130 Progress: 83.3333% Correct Percentage: 93.5761%
131 Progress:      85% Correct Percentage: 93.6001%
132 Progress: 86.6667% Correct Percentage: 93.6443%
133 Progress: 88.3333% Correct Percentage: 93.6341%
134 Progress:      90% Correct Percentage: 93.6557%
135 Progress: 91.6667% Correct Percentage: 93.6947%
136 Progress: 93.3333% Correct Percentage: 93.7287%
137 Progress:      95% Correct Percentage: 93.7615%
138 Progress: 96.6667% Correct Percentage: 93.8139%
139 Progress: 98.3333% Correct Percentage: 93.873%
140 Finish Training 60000 Data
141 With Accuracy: 93.9267%
142 Progress:      0% Correct Percentage:      100%
143 Progress:     10% Correct Percentage: 94.6054%
144 Progress:     20% Correct Percentage: 93.5532%
145 Progress:     30% Correct Percentage: 93.5688%
146 Progress:     40% Correct Percentage: 93.3517%
147 Progress:     50% Correct Percentage: 93.2214%
148 Progress:     60% Correct Percentage: 93.5844%
149 Progress:     70% Correct Percentage: 93.8866%
150 Progress:     80% Correct Percentage: 94.2507%
151 Progress:     90% Correct Percentage: 94.6784%
152 Finish Testing 10000 Data
153 With Accuracy: 94.69%
154 Epoch: 2
155 Progress:      0% Correct Percentage:      100%
156 Progress:  1.66667% Correct Percentage: 95.005%
157 Progress:  3.33333% Correct Percentage: 94.9025%
158 Progress:      5% Correct Percentage: 95.3016%
159 Progress:  6.66667% Correct Percentage: 95.4511%
160 Progress:  8.33333% Correct Percentage: 95.4809%
161 Progress:     10% Correct Percentage: 95.4841%
162 Progress: 11.6667% Correct Percentage: 95.6006%
163 Progress: 13.3333% Correct Percentage: 95.4506%

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164	Progress:	15%	Correct	Percentage:	95.2561%
165	Progress:	16.6667%	Correct	Percentage:	95.2505%
166	Progress:	18.3333%	Correct	Percentage:	95.3641%
167	Progress:	20%	Correct	Percentage:	95.4254%
168	Progress:	21.6667%	Correct	Percentage:	95.3773%
169	Progress:	23.3333%	Correct	Percentage:	95.3646%
170	Progress:	25%	Correct	Percentage:	95.3003%
171	Progress:	26.6667%	Correct	Percentage:	95.3003%
172	Progress:	28.3333%	Correct	Percentage:	95.3238%
173	Progress:	30%	Correct	Percentage:	95.2725%
174	Progress:	31.6667%	Correct	Percentage:	95.3371%
175	Progress:	33.3333%	Correct	Percentage:	95.3752%
176	Progress:	35%	Correct	Percentage:	95.3478%
177	Progress:	36.6667%	Correct	Percentage:	95.3866%
178	Progress:	38.3333%	Correct	Percentage:	95.3872%
179	Progress:	40%	Correct	Percentage:	95.4044%
180	Progress:	41.6667%	Correct	Percentage:	95.4082%
181	Progress:	43.3333%	Correct	Percentage:	95.4271%
182	Progress:	45%	Correct	Percentage:	95.4113%
183	Progress:	46.6667%	Correct	Percentage:	95.418%
184	Progress:	48.3333%	Correct	Percentage:	95.4381%
185	Progress:	50%	Correct	Percentage:	95.3935%
186	Progress:	51.6667%	Correct	Percentage:	95.3937%
187	Progress:	53.3333%	Correct	Percentage:	95.3595%
188	Progress:	55%	Correct	Percentage:	95.3577%
189	Progress:	56.6667%	Correct	Percentage:	95.3943%
190	Progress:	58.3333%	Correct	Percentage:	95.3944%
191	Progress:	60%	Correct	Percentage:	95.4279%
192	Progress:	61.6667%	Correct	Percentage:	95.438%
193	Progress:	63.3333%	Correct	Percentage:	95.4133%
194	Progress:	65%	Correct	Percentage:	95.4488%
195	Progress:	66.6667%	Correct	Percentage:	95.4501%
196	Progress:	68.3333%	Correct	Percentage:	95.4782%
197	Progress:	70%	Correct	Percentage:	95.4596%
198	Progress:	71.6667%	Correct	Percentage:	95.4303%
199	Progress:	73.3333%	Correct	Percentage:	95.466%
200	Progress:	75%	Correct	Percentage:	95.4801%
201	Progress:	76.6667%	Correct	Percentage:	95.4588%
202	Progress:	78.3333%	Correct	Percentage:	95.4426%
203	Progress:	80%	Correct	Percentage:	95.4334%
204	Progress:	81.6667%	Correct	Percentage:	95.445%

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205 Progress: 83.3333% Correct Percentage: 95.4361%
206 Progress:      85% Correct Percentage: 95.4413%
207 Progress: 86.6667% Correct Percentage: 95.4712%
208 Progress: 88.3333% Correct Percentage: 95.4623%
209 Progress:      90% Correct Percentage: 95.4834%
210 Progress: 91.6667% Correct Percentage: 95.511%
211 Progress: 93.3333% Correct Percentage: 95.5304%
212 Progress:      95% Correct Percentage: 95.551%
213 Progress: 96.6667% Correct Percentage: 95.5777%
214 Progress: 98.3333% Correct Percentage: 95.6153%
215 Finish Training 60000 Data
216 With Accuracy: 95.65%
217 Progress:      0% Correct Percentage:      100%
218 Progress:      10% Correct Percentage: 96.004%
219 Progress:      20% Correct Percentage: 94.8526%
220 Progress:      30% Correct Percentage: 94.7018%
221 Progress:      40% Correct Percentage: 94.4764%
222 Progress:      50% Correct Percentage: 94.3611%
223 Progress:      60% Correct Percentage: 94.7842%
224 Progress:      70% Correct Percentage: 95.0007%
225 Progress:      80% Correct Percentage: 95.4256%
226 Progress:      90% Correct Percentage: 95.7671%
227 Finish Testing 10000 Data
228 With Accuracy: 95.8%
229 Epoch: 3
230 Progress:      0% Correct Percentage:      100%
231 Progress: 1.66667% Correct Percentage: 96.3037%
232 Progress: 3.33333% Correct Percentage: 96.002%
233 Progress:      5% Correct Percentage: 96.5012%
234 Progress: 6.66667% Correct Percentage: 96.6508%
235 Progress: 8.33333% Correct Percentage: 96.6407%
236 Progress:      10% Correct Percentage: 96.5339%
237 Progress: 11.6667% Correct Percentage: 96.6291%
238 Progress: 13.3333% Correct Percentage: 96.4754%
239 Progress:      15% Correct Percentage: 96.3115%
240 Progress: 16.6667% Correct Percentage: 96.2804%
241 Progress: 18.3333% Correct Percentage: 96.3458%
242 Progress:      20% Correct Percentage: 96.417%
243 Progress: 21.6667% Correct Percentage: 96.3772%
244 Progress: 23.3333% Correct Percentage: 96.3772%
245 Progress: 23.3333% Correct Percentage: 96.3503%

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246	Progress:	25%	Correct	Percentage:	96.3002%
247	Progress:	26.6667%	Correct	Percentage:	96.294%
248	Progress:	28.3333%	Correct	Percentage:	96.3002%
249	Progress:	30%	Correct	Percentage:	96.2669%
250	Progress:	31.6667%	Correct	Percentage:	96.316%
251	Progress:	33.3333%	Correct	Percentage:	96.3502%
252	Progress:	35%	Correct	Percentage:	96.2954%
253	Progress:	36.6667%	Correct	Percentage:	96.3229%
254	Progress:	38.3333%	Correct	Percentage:	96.3089%
255	Progress:	40%	Correct	Percentage:	96.3293%
256	Progress:	41.6667%	Correct	Percentage:	96.3521%
257	Progress:	43.3333%	Correct	Percentage:	96.3771%
258	Progress:	45%	Correct	Percentage:	96.3446%
259	Progress:	46.6667%	Correct	Percentage:	96.3466%
260	Progress:	48.3333%	Correct	Percentage:	96.3587%
261	Progress:	50%	Correct	Percentage:	96.3335%
262	Progress:	51.6667%	Correct	Percentage:	96.3485%
263	Progress:	53.3333%	Correct	Percentage:	96.297%
264	Progress:	55%	Correct	Percentage:	96.2789%
265	Progress:	56.6667%	Correct	Percentage:	96.3178%
266	Progress:	58.3333%	Correct	Percentage:	96.3087%
267	Progress:	60%	Correct	Percentage:	96.339%
268	Progress:	61.6667%	Correct	Percentage:	96.3487%
269	Progress:	63.3333%	Correct	Percentage:	96.3317%
270	Progress:	65%	Correct	Percentage:	96.3616%
271	Progress:	66.6667%	Correct	Percentage:	96.3451%
272	Progress:	68.3333%	Correct	Percentage:	96.3635%
273	Progress:	70%	Correct	Percentage:	96.3453%
274	Progress:	71.6667%	Correct	Percentage:	96.321%
275	Progress:	73.3333%	Correct	Percentage:	96.3501%
276	Progress:	75%	Correct	Percentage:	96.3601%
277	Progress:	76.6667%	Correct	Percentage:	96.3544%
278	Progress:	78.3333%	Correct	Percentage:	96.3426%
279	Progress:	80%	Correct	Percentage:	96.3251%
280	Progress:	81.6667%	Correct	Percentage:	96.3286%
281	Progress:	83.3333%	Correct	Percentage:	96.3121%
282	Progress:	85%	Correct	Percentage:	96.3236%
283	Progress:	86.6667%	Correct	Percentage:	96.3405%
284	Progress:	88.3333%	Correct	Percentage:	96.334%
285	Progress:	90%	Correct	Percentage:	96.3445%
286	Progress:	91.6667%	Correct	Percentage:	96.3692%

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287 Progress: 93.3333% Correct Percentage: 96.3768%
288 Progress:      95% Correct Percentage: 96.3948%
289 Progress: 96.6667% Correct Percentage: 96.4121%
290 Progress: 98.3333% Correct Percentage: 96.4424%
291 Finish Training 60000 Data
292 With Accuracy: 96.465%
293 Progress:      0% Correct Percentage:      100%
294 Progress:      10% Correct Percentage: 96.1039%
295 Progress:      20% Correct Percentage: 95.4023%
296 Progress:      30% Correct Percentage: 95.3016%
297 Progress:      40% Correct Percentage: 95.1012%
298 Progress:      50% Correct Percentage: 95.061%
299 Progress:      60% Correct Percentage: 95.4508%
300 Progress:      70% Correct Percentage: 95.6578%
301 Progress:      80% Correct Percentage: 96.0755%
302 Progress:      90% Correct Percentage: 96.3448%
303 Finish Testing 10000 Data
304 With Accuracy: 96.36%
305 Epoch: 4
306 Progress:      0% Correct Percentage:      100%
307 Progress: 1.66667% Correct Percentage: 96.8032%
308 Progress: 3.33333% Correct Percentage: 96.6017%
309 Progress:      5% Correct Percentage: 96.9677%
310 Progress: 6.66667% Correct Percentage: 97.1257%
311 Progress: 8.33333% Correct Percentage: 97.1206%
312 Progress:      10% Correct Percentage: 97.0505%
313 Progress: 11.6667% Correct Percentage: 97.1433%
314 Progress: 13.3333% Correct Percentage: 97.0254%
315 Progress:      15% Correct Percentage: 96.867%
316 Progress: 16.6667% Correct Percentage: 96.8603%
317 Progress: 18.3333% Correct Percentage: 96.8912%
318 Progress:      20% Correct Percentage: 96.9586%
319 Progress: 21.6667% Correct Percentage: 96.9387%
320 Progress: 23.3333% Correct Percentage: 96.9216%
321 Progress:      25% Correct Percentage: 96.9135%
322 Progress: 26.6667% Correct Percentage: 96.9315%
323 Progress: 26.6667% Correct Percentage: 96.9314%
324 Progress: 28.3333% Correct Percentage: 96.9237%
325 Progress:      30% Correct Percentage: 96.8946%
326 Progress: 31.6667% Correct Percentage: 96.8946%
327 Progress: 31.6667% Correct Percentage: 96.9317%

```


328	Progress:	33.3333%	Correct	Percentage:	96.9501%
329	Progress:	35%	Correct	Percentage:	96.9097%
330	Progress:	36.6667%	Correct	Percentage:	96.9274%
331	Progress:	38.3333%	Correct	Percentage:	96.9262%
332	Progress:	40%	Correct	Percentage:	96.9418%
333	Progress:	41.6667%	Correct	Percentage:	96.9561%
334	Progress:	43.3333%	Correct	Percentage:	96.9732%
335	Progress:	45%	Correct	Percentage:	96.926%
336	Progress:	46.6667%	Correct	Percentage:	96.9465%
337	Progress:	48.3333%	Correct	Percentage:	96.9518%
338	Progress:	50%	Correct	Percentage:	96.9334%
339	Progress:	51.6667%	Correct	Percentage:	96.9453%
340	Progress:	53.3333%	Correct	Percentage:	96.9188%
341	Progress:	55%	Correct	Percentage:	96.9031%
342	Progress:	56.6667%	Correct	Percentage:	96.9295%
343	Progress:	58.3333%	Correct	Percentage:	96.9258%
344	Progress:	60%	Correct	Percentage:	96.9473%
345	Progress:	61.6667%	Correct	Percentage:	96.9433%
346	Progress:	63.3333%	Correct	Percentage:	96.9238%
347	Progress:	65%	Correct	Percentage:	96.9411%
348	Progress:	66.6667%	Correct	Percentage:	96.9201%
349	Progress:	68.3333%	Correct	Percentage:	96.944%
350	Progress:	70%	Correct	Percentage:	96.931%
351	Progress:	71.6667%	Correct	Percentage:	96.9094%
352	Progress:	73.3333%	Correct	Percentage:	96.9319%
353	Progress:	75%	Correct	Percentage:	96.9379%
354	Progress:	76.6667%	Correct	Percentage:	96.9305%
355	Progress:	78.3333%	Correct	Percentage:	96.9256%
356	Progress:	80%	Correct	Percentage:	96.9146%
357	Progress:	81.6667%	Correct	Percentage:	96.9144%
358	Progress:	83.3333%	Correct	Percentage:	96.8961%
359	Progress:	85%	Correct	Percentage:	96.904%
360	Progress:	86.6667%	Correct	Percentage:	96.9174%
361	Progress:	88.3333%	Correct	Percentage:	96.9133%
362	Progress:	90%	Correct	Percentage:	96.9204%
363	Progress:	91.6667%	Correct	Percentage:	96.9364%
364	Progress:	93.3333%	Correct	Percentage:	96.9447%
365	Progress:	95%	Correct	Percentage:	96.9615%
366	Progress:	96.6667%	Correct	Percentage:	96.9759%
367	Progress:	98.3333%	Correct	Percentage:	97.0051%
368	Finish Training 60000 Data				

```
369 With Accuracy: 97.025%
370 Progress:      0% Correct Percentage:    100%
371 Progress:     10% Correct Percentage: 96.2038%
372 Progress:     20% Correct Percentage: 95.5522%
373 Progress:     30% Correct Percentage: 95.6015%
374 Progress:     40% Correct Percentage: 95.4761%
375 Progress:     50% Correct Percentage: 95.5209%
376 Progress:     60% Correct Percentage: 95.9007%
377 Progress:     70% Correct Percentage: 96.1006%
378 Progress:     80% Correct Percentage: 96.4754%
379 Progress:     90% Correct Percentage: 96.7004%
380 Finish Testing 10000 Data
381 With Accuracy: 96.7%
382 Runtime: 190.383 Seconds
383
384 Process finished with exit code 0
385
```