

File - main

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1 C:\Users\Salvo\AppData\Local\Microsoft\WindowsApps\python3.8.exe "C:/Users/Salvo/GitHub/MicroRacer_Corinaldesi_Fiorilla
- Copy/ppo/main.py"
2 2022-01-30 18:42:09.461954: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic
library 'cudart64_110.dll'; dlsym: cudart64_110.dll not found
3 2022-01-30 18:42:09.462103: I tensorflow/stream_executor/cuda/cudart_stub.cc:29] Ignore above cudart dlsym if you do
not have a GPU set up on your machine.
4 2022-01-30 18:42:15.523202: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic
library 'cudart64_110.dll'; dlsym: cudart64_110.dll not found
5 2022-01-30 18:42:15.523513: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic
library 'cublas64_11.dll'; dlsym: cublas64_11.dll not found
6 2022-01-30 18:42:15.523809: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic
library 'cublasLt64_11.dll'; dlsym: cublasLt64_11.dll not found
7 2022-01-30 18:42:15.524102: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic
library 'cufft64_10.dll'; dlsym: cufft64_10.dll not found
8 2022-01-30 18:42:15.524387: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic
library 'curand64_10.dll'; dlsym: curand64_10.dll not found
9 2022-01-30 18:42:15.524672: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic
library 'cusolver64_11.dll'; dlsym: cusolver64_11.dll not found
10 2022-01-30 18:42:15.524963: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic
library 'cusparse64_11.dll'; dlsym: cusparse64_11.dll not found
11 2022-01-30 18:42:15.525257: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic
library 'cudnn64_8.dll'; dlsym: cudnn64_8.dll not found
12 2022-01-30 18:42:15.525411: W tensorflow/core/common_runtime/gpu/gpu_device.cc:1835] Cannot dlopen some GPU libraries.
Please make sure the missing libraries mentioned above are installed properly if you would like to use GPU. Follow the
guide at https://www.tensorflow.org/install/gpu for how to download and setup the required libraries for your platform.
13 Skipping registering GPU devices...
14 2022-01-30 18:42:15.525967: I tensorflow/core/platform/cpu_feature_guard.cc:142] This TensorFlow binary is optimized
with oneAPI Deep Neural Network Library (oneDNN) to use the following CPU instructions in performance-critical
operations: AVX AVX2
15 To enable them in other operations, rebuild TensorFlow with the appropriate compiler flags.
16 CURRENT ACTOR-CRITIC NETWORK IN USE
17 Model: "ActorNet"
18 -----
19 Layer (type)          Output Shape         Param #  Connected to
20 =====
21 input_1 (InputLayer) [(None, 5)]        0
22 -----
23 layer_1 (Dense)      (None, 512)         3072     input_1[0][0]
24 -----
25 layer_2 (Dense)      (None, 512)         262656   layer_1[0][0]
26 -----
27 layer_3 (Dense)      (None, 512)         262656   layer_2[0][0]
28 -----
29 layer_4 (Dense)      (None, 512)         262656   layer_3[0][0]
30 -----
31 acc_out_mu (Dense)  (None, 1)           513      layer_4[0][0]
32 -----
33 dir_out_mu (Dense)  (None, 1)           513      layer_4[0][0]
34 -----
35 concatenate (Concatenate) (None, 2)        0        acc_out_mu[0][0]
36                               |                   |
37                               +-----+-----+
38 Total params: 792,066
39 Trainable params: 792,066
40 Non-trainable params: 0
41 -----
42 Model: "CriticNet"
43 -----
44 Layer (type)          Output Shape         Param #
45 =====
46 input_2 (InputLayer) [(None, 5)]        0
47 -----
48 layer_1 (Dense)      (None, 512)         3072
49 -----
50 layer_2 (Dense)      (None, 512)         262656
51 -----
52 layer_3 (Dense)      (None, 512)         262656
53 -----
54 dense (Dense)       (None, 1)           513
55 -----
56 Total params: 528,897
57 Trainable params: 528,897
58 Non-trainable params: 0
59 -----
60 Started Training ...
61 Hyperparameters:
62 Actor_lr 3e-05. Critic_lr 0.0001. clip_value 0.1. N_epochs 200. steps_per_epoch 4096. train_iteraion 50.
63 target_mean_diff 0.0225.
64 2022-01-30 18:42:16.438458: I tensorflow/compiler/mlir/mlir_graph_optimization_pass.cc:185] None of the MLIR
Optimization Passes are enabled (registered 2)
65 2022-01-30 18:42:16.508641: W tensorflow/core/grappler/optimizers/loop_optimizer.cc:907] Skipping loop optimization for
Merge node with control input: direction_norm/assert_positive/assert_less/Assert/AssertGuard/branch_executed/_47
66 2022-01-30 18:43:52.809848: W tensorflow/core/grappler/optimizers/loop_optimizer.cc:907] Skipping loop optimization for
Merge node with control input: StatefulPartitionedCall/acceleration_norm/assert_greater/Assert/AssertGuard/
branch_executed/_448
67 2022-01-30 18:44:01.307775: W tensorflow/python/util/util.cc:348] Sets are not currently considered sequences, but this
may change in the future, so consider avoiding using them.
68 Epoch: 1.    UP Best ! Mean Return: -2.8639719486236572.    Trajectories: 362. Mean Length: 11.314917127071823.
68 Epoch: 2.    UP Best ! Mean Return: -2.856853723526001. Trajectories: 297. Mean Length: 13.79124579124579.
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69 Epoch: 3. UP Best ! Mean Return: -2.844391107559204. Trajectories: 322. Mean Length: 12.720496894409937.
70 Epoch: 4. DOWN Mean Return: -2.84612264820605. Trajectories: 313. Mean Length: 13.08626198083067.
71 Epoch: 5. DOWN Mean Return: -2.857487440109253. Trajectories: 385. Mean Length: 10.638961038961039.
72 Epoch: 6. UP Mean Return: -2.849818706512451. Trajectories: 357. Mean Length: 11.473389355742297.
73 Epoch: 7. DOWN Mean Return: -2.8601644039154053. Trajectories: 312. Mean Length: 13.128205128205128.
74 Epoch: 8. UP Mean Return: -2.844965376434326. Trajectories: 306. Mean Length: 13.38562091563268.
75 Epoch: 9. DOWN Mean Return: -2.846684694290161. Trajectories: 317. Mean Length: 12.921135646687697.
76 saving models
77 Epoch: 10. DOWN Mean Return: -2.8580546379089355. Trajectories: 302. Mean Length: 13.562913907284768.
78 Epoch: 11. UP Mean Return: -2.8489935398101807. Trajectories: 252. Mean Length: 16.253968253968253.
79 Epoch: 12. DOWN Mean Return: -2.852710247039795. Trajectories: 281. Mean Length: 14.576512455516013.
80 Epoch: 13. UP Best ! Mean Return: -2.841812863464355. Trajectories: 320. Mean Length: 12.8.
81 Epoch: 14. DOWN Mean Return: -2.8544490337371826. Trajectories: 319. Mean Length: 12.84012539184953.
82 Epoch: 15. DOWN Mean Return: -2.858262538909912. Trajectories: 284. Mean Length: 14.422535211267606.
83 Epoch: 16. UP Best ! Mean Return: -2.82908034324646. Trajectories: 211. Mean Length: 19.412322274881518.
84 Epoch: 17. DOWN Mean Return: -2.8429503440856934. Trajectories: 227. Mean Length: 18.044052863436125.
85 Epoch: 18. UP Mean Return: -2.8330130577087402. Trajectories: 265. Mean Length: 15.456603773584906.
86 Epoch: 19. DOWN Mean Return: -2.838949680328369. Trajectories: 273. Mean Length: 15.003663003663004.
87 saving models
88 Epoch: 20. UP Mean Return: -2.83103609085083. Trajectories: 266. Mean Length: 15.398496240601503.
89 Epoch: 21. UP Mean Return: -2.830268144607544. Trajectories: 257. Mean Length: 15.937743190661479.
90 Epoch: 22. UP Best ! Mean Return: -2.8105123043060303. Trajectories: 162. Mean Length: 25.28395661728395.
91 Epoch: 23. UP Best ! Mean Return: -2.798491954803467. Trajectories: 189. Mean Length: 21.67195767195767.
92 Epoch: 24. UP Best ! Mean Return: -2.78035569190979. Trajectories: 160. Mean Length: 25.6.
93 Epoch: 25. DOWN Mean Return: -2.782903909632275. Trajectories: 161. Mean Length: 25.440993788819874.
94 Epoch: 26. UP Best ! Mean Return: -2.764859676361084. Trajectories: 157. Mean Length: 26.089171974522294.
95 Epoch: 27. DOWN Mean Return: -2.785503387451172. Trajectories: 163. Mean Length: 25.12883435582822.
96 Epoch: 28. UP Mean Return: -2.7743444427479023. Trajectories: 172. Mean Length: 23.813953488372093.
97 Epoch: 29. UP Best ! Mean Return: -2.741208076477051. Trajectories: 119. Mean Length: 34.42016806722689.
98 saving models
99 Epoch: 30. DOWN Mean Return: -2.765021562576294. Trajectories: 132. Mean Length: 31.03030303030303.
100 Epoch: 31. DOWN Mean Return: -2.7866103649139404. Trajectories: 198. Mean Length: 20.6868686868686869.
101 Epoch: 32. UP Mean Return: -2.7533633708953857. Trajectories: 158. Mean Length: 25.924050632911392.
102 Epoch: 33. UP Best ! Mean Return: -2.721897602081299. Trajectories: 137. Mean Length: 29.8978102189781.
103 Epoch: 34. UP Best ! Mean Return: -2.695643424987793. Trajectories: 125. Mean Length: 32.768.
104 Epoch: 35. UP Best ! Mean Return: -2.6658968925476074. Trajectories: 100. Mean Length: 40.96.
105 Epoch: 36. DOWN Mean Return: -2.718155860900879. Trajectories: 131. Mean Length: 31.267175572519083.
106 Epoch: 37. DOWN Mean Return: -2.738283157348633. Trajectories: 125. Mean Length: 32.768.
107 Epoch: 38. UP Mean Return: -2.682783603668213. Trajectories: 120. Mean Length: 34.13333333333333.
108 Epoch: 39. UP Best ! Mean Return: -2.661843776702881. Trajectories: 107. Mean Length: 38.2803738317757.
109 saving models
110 Epoch: 40. DOWN Mean Return: -2.6903443336486816. Trajectories: 109. Mean Length: 37.57798165137615.
111 Epoch: 41. DOWN Mean Return: -2.714113473892212. Trajectories: 128. Mean Length: 32.0.
112 Epoch: 42. UP Best ! Mean Return: -2.621680974960327. Trajectories: 87. Mean Length: 47.08045977011494.
113 Epoch: 43. DOWN Mean Return: -2.6803643703460693. Trajectories: 90. Mean Length: 45.51111111111111.
114 Epoch: 44. DOWN Mean Return: -2.693037509918213. Trajectories: 116. Mean Length: 35.310344827586206.
115 Epoch: 45. UP Best ! Mean Return: -2.566993236541748. Trajectories: 70. Mean Length: 58.51428571428571.
116 Epoch: 46. UP Best ! Mean Return: -2.5458312034606934. Trajectories: 85. Mean Length: 48.188235294117646.
117 Epoch: 47. DOWN Mean Return: -2.677598532470703. Trajectories: 137. Mean Length: 29.8978102189781.
118 Epoch: 48. UP Mean Return: -2.589538812637329. Trajectories: 112. Mean Length: 36.57142857142857.
119 Epoch: 49. UP Mean Return: -2.5489282608032227. Trajectories: 88. Mean Length: 46.54545454545455.
120 saving models
121 Epoch: 50. DOWN Mean Return: -2.592268705368042. Trajectories: 95. Mean Length: 43.11578947368421.
122 Epoch: 51. UP Mean Return: -2.5657629966735384. Trajectories: 84. Mean Length: 48.76190476190476.
123 Epoch: 52. DOWN Mean Return: -2.61979603767395. Trajectories: 96. Mean Length: 42.666666666666666.
124 Epoch: 53. UP Best ! Mean Return: -2.5016677379608154. Trajectories: 83. Mean Length: 49.34939759036145.
125 Epoch: 54. UP Best ! Mean Return: -2.4642202854156494. Trajectories: 63. Mean Length: 65.01587301587301.
126 Epoch: 55. UP Best ! Mean Return: -2.368840217590332. Trajectories: 50. Mean Length: 81.92.
127 Epoch: 56. DOWN Mean Return: -2.500248432159424. Trajectories: 87. Mean Length: 47.08045977011494.
128 Epoch: 57. DOWN Mean Return: -2.5067758560180664. Trajectories: 84. Mean Length: 48.76190476190476.
129 Epoch: 58. UP Best ! Mean Return: -2.303682327270508. Trajectories: 49. Mean Length: 83.59183673469387.
130 Epoch: 59. DOWN Mean Return: -2.335474911193848. Trajectories: 46. Mean Length: 89.04347826086956.
131 saving models
132 Epoch: 60. DOWN Mean Return: -2.4274823665618896. Trajectories: 59. Mean Length: 69.42372881355932.
133 Epoch: 61. UP Best ! Mean Return: -2.18231201171875. Trajectories: 40. Mean Length: 102.4.
134 Epoch: 62. DOWN Mean Return: -2.569735527038574. Trajectories: 87. Mean Length: 47.08045977011494.
135 Epoch: 63. UP Mean Return: -2.499375581741333. Trajectories: 84. Mean Length: 48.76190476190476.
136 Epoch: 64. UP Mean Return: -2.40368898612976074. Trajectories: 63. Mean Length: 65.01587301587301.
137 Epoch: 65. DOWN Mean Return: -2.4579665660858154. Trajectories: 76. Mean Length: 53.89473684210526.
138 Epoch: 66. UP Best ! Mean Return: -1.9770177602767944. Trajectories: 32. Mean Length: 128.0.
139 Epoch: 67. DOWN Mean Return: -2.4416956901550293. Trajectories: 81. Mean Length: 50.5679012345679.
140 Epoch: 68. DOWN Mean Return: -2.485750436782837. Trajectories: 75. Mean Length: 54.61333333333333.
141 Epoch: 69. UP Mean Return: -2.475442409515381. Trajectories: 82. Mean Length: 49.951219512195124.
142 saving models
143 Epoch: 70. UP Mean Return: -2.2546610832214355. Trajectories: 53. Mean Length: 77.28301886792453.
144 Epoch: 71. UP Mean Return: -2.1834919452667236. Trajectories: 46. Mean Length: 89.04347826086956.
145 Epoch: 72. DOWN Mean Return: -2.4769952297210693. Trajectories: 65. Mean Length: 63.01538461538462.
146 Epoch: 73. UP Mean Return: -2.1960644721984863. Trajectories: 54. Mean Length: 75.85185185185185.
147 Epoch: 74. UP Mean Return: -2.1749768257141113. Trajectories: 48. Mean Length: 85.33333333333333.
148 Epoch: 75. DOWN Mean Return: -2.377894878387451. Trajectories: 64. Mean Length: 64.0.
149 completed
150 Epoch: 76. UP Mean Return: -2.247328042984009. Trajectories: 74. Mean Length: 55.351351351351354.
151 Epoch: 77. UP Mean Return: -2.110844850540161. Trajectories: 51. Mean Length: 80.31372549019608.
152 completed
153 Epoch: 78. DOWN Mean Return: -2.2251641750335693. Trajectories: 67. Mean Length: 61.134328358208954.
154 Epoch: 79. DOWN Mean Return: -2.252824068069458. Trajectories: 51. Mean Length: 80.31372549019608.
155 completed
156 saving models
157 Epoch: 80. UP Best ! Mean Return: -1.923137903213501. Trajectories: 39. Mean Length: 105.02564102564102.

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158 Epoch: 81. DOWN Mean Return: -2.4717702865600586. Trajectories: 84. Mean Length: 48.76190476190476.
159 completed
160 Epoch: 82. UP Best ! Mean Return: -1.8258025646209717. Trajectories: 30. Mean Length: 136.53333333333333.
161 Epoch: 83. DOWN Mean Return: -2.2507200241088867. Trajectories: 44. Mean Length: 93.0909090909091.
162 completed
163 Epoch: 84. UP Mean Return: -2.175962209701538. Trajectories: 50. Mean Length: 81.92.
164 Epoch: 85. UP Mean Return: -1.8348207473754883. Trajectories: 33. Mean Length: 124.121212121212.
165 completed
166 Epoch: 86. DOWN Mean Return: -2.1755053997039795. Trajectories: 54. Mean Length: 75.85185185185185.
167 Epoch: 87. UP Mean Return: -1.8762152194976807. Trajectories: 36. Mean Length: 113.77777777777777.
168 Epoch: 88. DOWN Mean Return: -1.9941555261611938. Trajectories: 38. Mean Length: 107.78947368421052.
169 completed
170 Epoch: 89. DOWN Mean Return: -2.1749022006988525. Trajectories: 50. Mean Length: 81.92.
171 saving models
172 Epoch: 90. DOWN Mean Return: -2.1964199542999268. Trajectories: 49. Mean Length: 83.59183673469387.
173 Epoch: 91. UP Best ! Mean Return: -1.5748467445373535. Trajectories: 22. Mean Length: 186.18181818182.
174 completed
175 Epoch: 92. DOWN Mean Return: -1.9740116596221924. Trajectories: 37. Mean Length: 110.70270270270271.
176 completed
177 completed
178 Epoch: 93. UP Best ! Mean Return: -0.7926749587059021. Trajectories: 22. Mean Length: 186.18181818182.
179 Epoch: 94. DOWN Mean Return: -1.9805223941802979. Trajectories: 38. Mean Length: 107.78947368421052.
180 Epoch: 95. UP Mean Return: -1.8477718830108643. Trajectories: 33. Mean Length: 124.121212121212.
181 Epoch: 96. DOWN Mean Return: -1.950366735458374. Trajectories: 40. Mean Length: 102.4.
182 completed
183 Epoch: 97. UP Mean Return: -0.8311148285865784. Trajectories: 17. Mean Length: 240.94117647058823.
184 completed
185 completed
186 Epoch: 98. DOWN Mean Return: -0.89445561170578. Trajectories: 20. Mean Length: 204.8.
187 completed
188 Epoch: 99. UP Best ! Mean Return: -0.12926322221755981. Trajectories: 13. Mean Length: 315.0769230769231.
189 completed
190 saving models
191 Epoch: 100. DOWN Mean Return: -1.7427394390106201. Trajectories: 35. Mean Length: 117.02857142857142.
192 completed
193 Epoch: 101. UP Mean Return: -1.394141674041748. Trajectories: 21. Mean Length: 195.04761904761904.
194 Epoch: 102. DOWN Mean Return: -1.8380318880081177. Trajectories: 31. Mean Length: 132.1290322580645.
195 completed
196 completed
197 completed
198 Epoch: 103. UP Mean Return: -1.0631917715072632. Trajectories: 24. Mean Length: 170.66666666666666.
199 completed
200 Epoch: 104. UP Mean Return: -0.5873447060585022. Trajectories: 12. Mean Length: 341.333333333333.
201 completed
202 Epoch: 105. DOWN Mean Return: -1.8383203744888306. Trajectories: 34. Mean Length: 120.47058823529412.
203 completed
204 Epoch: 106. UP Mean Return: -1.6785002946853638. Trajectories: 34. Mean Length: 120.47058823529412.
205 Epoch: 107. UP Mean Return: -1.3955107927322388. Trajectories: 35. Mean Length: 117.02857142857142.
206 completed
207 Epoch: 108. DOWN Mean Return: -1.795192837715149. Trajectories: 37. Mean Length: 110.70270270270271.
208 completed
209 completed
210 Epoch: 109. UP Mean Return: -1.6145615577697754. Trajectories: 42. Mean Length: 97.52380952380952.
211 completed
212 completed
213 saving models
214 Epoch: 110. UP Mean Return: -1.3158605098724365. Trajectories: 30. Mean Length: 136.53333333333333.
215 completed
216 Epoch: 111. DOWN Mean Return: -1.4882699251174927. Trajectories: 27. Mean Length: 151.7037037037037.
217 completed
218 completed
219 Epoch: 112. UP Mean Return: -0.7946216464042664. Trajectories: 22. Mean Length: 186.18181818182.
220 completed
221 completed
222 completed
223 Epoch: 113. DOWN Mean Return: -0.9579275846481323. Trajectories: 26. Mean Length: 157.53846153846155.
224 Epoch: 114. DOWN Mean Return: -1.4505654573440552. Trajectories: 28. Mean Length: 146.28571428571428.
225 completed
226 Epoch: 115. DOWN Mean Return: -1.5596284866333008. Trajectories: 33. Mean Length: 124.121212121212.
227 completed
228 Epoch: 116. UP Mean Return: -1.3055115938186646. Trajectories: 25. Mean Length: 163.84.
229 completed
230 completed
231 Epoch: 117. UP Mean Return: -0.962653636932373. Trajectories: 20. Mean Length: 204.8.
232 completed
233 completed
234 completed
235 Epoch: 118. DOWN Mean Return: -1.031004548072815. Trajectories: 28. Mean Length: 146.28571428571428.
236 completed
237 Epoch: 119. DOWN Mean Return: -1.7913280725479126. Trajectories: 43. Mean Length: 95.25581395348837.
238 completed
239 completed
240 saving models
241 Epoch: 120. UP Mean Return: -1.4222335815429688. Trajectories: 34. Mean Length: 120.47058823529412.
242 completed
243 completed
244 completed
245 Epoch: 121. UP Mean Return: -0.6461274027824402. Trajectories: 21. Mean Length: 195.04761904761904.
246 completed

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247 completed
248 Epoch: 122. DOWN Mean Return: -1.1604679822921753. Trajectories: 30. Mean Length: 136.5333333333333.
249 Epoch: 123. DOWN Mean Return: -1.9662381410598755. Trajectories: 60. Mean Length: 68.26666666666667.
250 completed
251 completed
252 completed
253 Epoch: 124. UP Mean Return: -0.8376618027687073. Trajectories: 28. Mean Length: 146.28571428571428.
254 completed
255 completed
256 Epoch: 125. DOWN Mean Return: -1.1655272245407104. Trajectories: 28. Mean Length: 146.28571428571428.
257 completed
258 Epoch: 126. DOWN Mean Return: -1.7467864751815796. Trajectories: 39. Mean Length: 105.02564102564102.
259 completed
260 Epoch: 127. UP Mean Return: -1.7247183322906494. Trajectories: 39. Mean Length: 105.02564102564102.
261 Epoch: 128. DOWN Mean Return: -1.8809105157852173. Trajectories: 47. Mean Length: 87.14893617021276.
262 completed
263 Epoch: 129. UP Mean Return: -1.1515581607818604. Trajectories: 29. Mean Length: 141.24137931034483.
264 saving models
265 Epoch: 130. DOWN Mean Return: -1.2139086723327637. Trajectories: 24. Mean Length: 170.6666666666666.
266 completed
267 Epoch: 131. DOWN Mean Return: -1.4396785497665405. Trajectories: 37. Mean Length: 110.70270270270271.
268 completed
269 completed
270 completed
271 Epoch: 132. DOWN Mean Return: -1.5895721912384033. Trajectories: 46. Mean Length: 89.04347826086956.
272 completed
273 completed
274 completed
275 Epoch: 133. UP Mean Return: -0.4495016038417816. Trajectories: 22. Mean Length: 186.1818181818182.
276 Epoch: 134. DOWN Mean Return: -1.2787343263626099. Trajectories: 27. Mean Length: 151.7037037037037.
277 completed
278 completed
279 completed
280 Epoch: 135. DOWN Mean Return: -1.6100600957870483. Trajectories: 48. Mean Length: 85.3333333333333.
281 completed
282 completed
283 completed
284 Epoch: 136. UP Mean Return: -0.2018699198961258. Trajectories: 22. Mean Length: 186.1818181818182.
285 completed
286 completed
287 Epoch: 137. DOWN Mean Return: -1.3658466339111328. Trajectories: 37. Mean Length: 110.70270270270271.
288 Epoch: 138. UP Mean Return: -1.1510319709777832. Trajectories: 26. Mean Length: 157.53846153846155.
289 completed
290 Epoch: 139. UP Mean Return: -1.0552072525024414. Trajectories: 26. Mean Length: 157.53846153846155.
291 completed
292 completed
293 saving models
294 Epoch: 140. UP Mean Return: -1.035671353340149. Trajectories: 27. Mean Length: 151.7037037037037.
295 completed
296 completed
297 Epoch: 141. UP Best ! Mean Return: 0.06390112638473511. Trajectories: 19. Mean Length: 215.57894736842104.
298 completed
299 completed
300 Epoch: 142. DOWN Mean Return: -1.021428108215332. Trajectories: 26. Mean Length: 157.53846153846155.
301 completed
302 completed
303 completed
304 Epoch: 143. UP Mean Return: -0.5405178666114807. Trajectories: 24. Mean Length: 170.6666666666666.
305 completed
306 Epoch: 144. DOWN Mean Return: -1.526105523109436. Trajectories: 39. Mean Length: 105.02564102564102.
307 completed
308 Epoch: 145. DOWN Mean Return: -1.8013813495635986. Trajectories: 57. Mean Length: 71.85964912280701.
309 completed
310 completed
311 completed
312 Epoch: 146. UP Mean Return: -0.8324957489967346. Trajectories: 28. Mean Length: 146.28571428571428.
313 completed
314 completed
315 completed
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317 completed
318 completed
319 Epoch: 148. DOWN Mean Return: -1.2809782028198242. Trajectories: 32. Mean Length: 128.0.
320 completed
321 Epoch: 149. DOWN Mean Return: -1.3616256713867188. Trajectories: 39. Mean Length: 105.02564102564102.
322 completed
323 completed
324 saving models
325 Epoch: 150. UP Mean Return: -0.6469199657440186. Trajectories: 18. Mean Length: 227.55555555555554.
326 Epoch: 151. DOWN Mean Return: -1.7228901386260986. Trajectories: 44. Mean Length: 93.0909090909091.
327 completed
328 completed
329 Epoch: 152. UP Mean Return: -1.695448637008667. Trajectories: 55. Mean Length: 74.47272727272727.
330 completed
331 completed
332 Epoch: 153. UP Mean Return: -0.8034992218017578. Trajectories: 28. Mean Length: 146.28571428571428.
333 completed
334 Epoch: 154. DOWN Mean Return: -1.3588234186172485. Trajectories: 39. Mean Length: 105.02564102564102.
335 completed

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336 completed
337 completed
338 Epoch: 155. DOWN Mean Return: -1.3593847751617432. Trajectories: 40. Mean Length: 102.4.
339 completed
340 Epoch: 156. DOWN Mean Return: -1.460005521774292. Trajectories: 37. Mean Length: 110.70270270270271.
341 completed
342 completed
343 Epoch: 157. UP Mean Return: -1.210404634475708. Trajectories: 37. Mean Length: 110.70270270270271.
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345 completed
346 completed
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348 completed
349 completed
350 Epoch: 159. UP Mean Return: -0.5894140005111694. Trajectories: 23. Mean Length: 178.08695652173913.
351 completed
352 saving models
353 Epoch: 160. DOWN Mean Return: -0.8320054411888123. Trajectories: 26. Mean Length: 157.53846153846155.
354 completed
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360 completed
361 completed
362 completed
363 completed
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365 completed
366 completed
367 completed
368 Epoch: 164. DOWN Mean Return: -0.6265193819999695. Trajectories: 28. Mean Length: 146.28571428571428.
369 completed
370 Epoch: 165. DOWN Mean Return: -0.9477411508560181. Trajectories: 28. Mean Length: 146.28571428571428.
371 completed
372 Epoch: 166. UP Mean Return: -0.8865211606025696. Trajectories: 28. Mean Length: 146.28571428571428.
373 Epoch: 167. UP Mean Return: -0.18706578016281128. Trajectories: 21. Mean Length: 195.04761904761904.
374 Epoch: 168. DOWN Mean Return: -0.8488160967826843. Trajectories: 21. Mean Length: 195.04761904761904.
375 completed
376 completed
377 Epoch: 169. DOWN Mean Return: -0.9577206969261169. Trajectories: 29. Mean Length: 141.24137931034483.
378 saving models
379 Epoch: 170. DOWN Mean Return: -1.6661899089813232. Trajectories: 51. Mean Length: 80.31372549019608.
380 completed
381 completed
382 Epoch: 171. UP Mean Return: -0.7489825487136841. Trajectories: 31. Mean Length: 132.1290322580645.
383 completed
384 completed
385 completed
386 Epoch: 172. DOWN Mean Return: -1.2695401906967163. Trajectories: 41. Mean Length: 99.90243902439025.
387 completed
388 Epoch: 173. UP Mean Return: -1.1099095344543457. Trajectories: 34. Mean Length: 120.47058823529412.
389 completed
390 completed
391 completed
392 Epoch: 174. UP Mean Return: -0.3001399040222168. Trajectories: 24. Mean Length: 170.6666666666666.
393 completed
394 completed
395 completed
396 completed
397 Epoch: 175. UP Best ! Mean Return: 0.11218805611133575. Trajectories: 20. Mean Length: 204.8.
398 completed
399 completed
400 completed
401 Epoch: 176. DOWN Mean Return: -0.77845698595047. Trajectories: 31. Mean Length: 132.1290322580645.
402 Epoch: 177. DOWN Mean Return: -1.3972309827804565. Trajectories: 34. Mean Length: 120.47058823529412.
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405 completed
406 completed
407 completed
408 Epoch: 179. DOWN Mean Return: -0.9522809386253357. Trajectories: 34. Mean Length: 120.47058823529412.
409 completed
410 saving models
411 Epoch: 180. UP Mean Return: -0.43528640270233154. Trajectories: 26. Mean Length: 157.53846153846155.
412 Epoch: 181. DOWN Mean Return: -1.40920090675354. Trajectories: 42. Mean Length: 97.52380952380952.
413 completed
414 completed
415 Epoch: 182. UP Mean Return: -0.5543650388717651. Trajectories: 27. Mean Length: 151.7037037037037.
416 completed
417 Epoch: 183. DOWN Mean Return: -1.3298146724700928. Trajectories: 40. Mean Length: 102.4.
418 completed
419 Epoch: 184. UP Mean Return: -0.3033747673034668. Trajectories: 22. Mean Length: 186.1818181818182.
420 completed
421 Epoch: 185. DOWN Mean Return: -1.150442123413086. Trajectories: 35. Mean Length: 117.02857142857142.
422 completed
423 completed
424 Epoch: 186. UP Best ! Mean Return: 0.2236696183681488. Trajectories: 20. Mean Length: 204.8.

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425 completed
426 completed
427 Epoch: 187. DOWN      Mean Return: -0.2873910665512085.    Trajectories: 25.    Mean Length: 163.84.
428 Epoch: 188. DOWN      Mean Return: -1.0384552478790283.   Trajectories: 30.    Mean Length: 136.53333333333333.
429 completed
430 completed
431 completed
432 Epoch: 189. DOWN      Mean Return: -1.2653611898422241.   Trajectories: 46.    Mean Length: 89.04347826086956.
433 saving models
434 Epoch: 190. UP        Mean Return: -0.927884042263031.   Trajectories: 25.    Mean Length: 163.84.
435 completed
436 completed
437 Epoch: 191. UP        Mean Return: -0.38270723819732666.  Trajectories: 25.    Mean Length: 163.84.
438 completed
439 completed
440 Epoch: 192. DOWN      Mean Return: -0.6556786894798279.  Trajectories: 27.    Mean Length: 151.7037037037037.
441 completed
442 Epoch: 193. DOWN      Mean Return: -1.2985965013504028.  Trajectories: 42.    Mean Length: 97.52380952380952.
443 Epoch: 194. DOWN      Mean Return: -1.6361275911331177.   Trajectories: 43.    Mean Length: 95.25581395348837.
444 completed
445 completed
446 completed
447 completed
448 Epoch: 195. UP  Best ! Mean Return: 0.508287787437439.  Trajectories: 20.    Mean Length: 204.8.
449 completed
450 completed
451 Epoch: 196. DOWN      Mean Return: -0.5634758472442627.  Trajectories: 27.    Mean Length: 151.7037037037037.
452 completed
453 completed
454 Epoch: 197. DOWN      Mean Return: -1.2622220516204834.  Trajectories: 40.    Mean Length: 102.4.
455 completed
456 completed
457 completed
458 Epoch: 198. UP  Best ! Mean Return: 0.6370885372161865.  Trajectories: 18.    Mean Length: 227.55555555555554.
459 completed
460 completed
461 completed
462 Epoch: 199. DOWN      Mean Return: -0.1866334229707718.  Trajectories: 21.    Mean Length: 195.04761904761904.
463 completed
464 completed
465 completed
466 completed
467 saving models
468 Epoch: 200. UP        Mean Return: 0.16246969997882843.  Trajectories: 21.    Mean Length: 195.04761904761904.
469 Training completed _
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470 Mean Reward [

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472

473 Process finished with exit code 0

474