

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 12:41:15.397689: W tensorflow/stream_executor/platform/default/dso_loader.cc:
  64] Could not load dynamic library 'cudart64_110.dll'; dlerror: cudart64_110.dll not
  found
3 2022-01-30 12:41:15.397839: I tensorflow/stream_executor/cuda/cudart_stub.cc:29] Ignore
  above cudart dlerror if you do not have a GPU set up on your machine.
4 2022-01-30 12:41:19.145432: W tensorflow/stream_executor/platform/default/dso_loader.cc:
  64] Could not load dynamic library 'cudart64_110.dll'; dlerror: cudart64_110.dll not
  found
5 2022-01-30 12:41:19.145711: W tensorflow/stream_executor/platform/default/dso_loader.cc:
  64] Could not load dynamic library 'cublas64_11.dll'; dlerror: cublas64_11.dll not found
6 2022-01-30 12:41:19.145970: W tensorflow/stream_executor/platform/default/dso_loader.cc:
  64] Could not load dynamic library 'cublasLt64_11.dll'; dlerror: cublasLt64_11.dll not
  found
7 2022-01-30 12:41:19.146226: W tensorflow/stream_executor/platform/default/dso_loader.cc:
  64] Could not load dynamic library 'cufft64_10.dll'; dlerror: cufft64_10.dll not found
8 2022-01-30 12:41:19.146476: W tensorflow/stream_executor/platform/default/dso_loader.cc:
  64] Could not load dynamic library 'curand64_10.dll'; dlerror: curand64_10.dll not found
9 2022-01-30 12:41:19.146732: W tensorflow/stream_executor/platform/default/dso_loader.cc:
  64] Could not load dynamic library 'cusolver64_11.dll'; dlerror: cusolver64_11.dll not
  found
10 2022-01-30 12:41:19.146991: W tensorflow/stream_executor/platform/default/dso_loader.cc:
  64] Could not load dynamic library 'cusparse64_11.dll'; dlerror: cusparse64_11.dll not
  found
11 2022-01-30 12:41:19.147244: W tensorflow/stream_executor/platform/default/dso_loader.cc:
  64] Could not load dynamic library 'cudnn64_8.dll'; dlerror: cudnn64_8.dll not found
12 2022-01-30 12:41:19.147372: 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 12:41:19.147834: 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, 32)           192          input_1[0][0]
24 -----
25 layer_2 (Dense)      (None, 32)           1056         layer_1[0][0]
26 -----
27 layer_3 (Dense)      (None, 32)           1056         layer_2[0][0]
28 -----
29 layer_4 (Dense)      (None, 32)           1056         layer_3[0][0]
30 -----
31 acc_out_mu (Dense)   (None, 1)            33           layer_4[0][0]

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31 ]
32 -----
33 dir_out_mu (Dense)          (None, 1)      33      layer_4[0][0]
34 -----
35 concatenate (Concatenate)   (None, 2)      0       acc_out_mu[0][0]
36 ]                           dir_out_mu[0][0]
37 =====
38 =====
38 Total params: 3,426
39 Trainable params: 3,426
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, 32)       192
49 -----
50 layer_2 (Dense)        (None, 32)       1056
51 -----
52 layer_3 (Dense)        (None, 32)       1056
53 -----
54 dense (Dense)          (None, 1)        33
55 =====
56 Total params: 2,337
57 Trainable params: 2,337
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. target_mean_diff 0.0225.
63 2022-01-30 12:41:19.916771: I tensorflow/compiler/mlir/mlir_graph_optimization_pass.cc:
185] None of the MLIR Optimization Passes are enabled (registered 2)
64 2022-01-30 12:41:19.974868: 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
65 2022-01-30 12:42:20.621986: W tensorflow/core/grappler/optimizers/loop_optimizer.cc:907]
Skipping loop optimization for Merge node with control input: StatefulPartitionedCall/
direction_norm/assert_greater/Assert/AssertGuard/branch_executed/_477
66 2022-01-30 12:42:23.742198: 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.
67 Epoch: 1. UP Best ! Mean Return: -2.8469223976135254. Trajectories: 231. Mean Length:
17.73160173160173.
68 Epoch: 2. DOWN      Mean Return: -2.857450008392334. Trajectories: 283. Mean Length:
14.473498233215548.
69 Epoch: 3. DOWN      Mean Return: -2.861372709274292. Trajectories: 326. Mean Length:
12.56441717791411.
70 Epoch: 4. UP        Mean Return: -2.8552796840667725. Trajectories: 297. Mean Length:
13.79124579124579.
71 Epoch: 5. DOWN      Mean Return: -2.87015962600708. Trajectories: 287. Mean Length:
14.27177700348432.
72 Epoch: 6. UP        Mean Return: -2.8523330688476562. Trajectories: 340. Mean Length:
12.047058823529412.
73 Epoch: 7. DOWN      Mean Return: -2.854123830795288. Trajectories: 280. Mean Length:
14.628571428571428.
74 Epoch: 8. UP        Mean Return: -2.849621295928955. Trajectories: 298. Mean Length:
13.74496644295302.
75 Epoch: 9. UP        Mean Return: -2.8484487533569336. Trajectories: 281. Mean Length:

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75 14.576512455516013.
76 saving models
77 Epoch: 10. DOWN      Mean Return: -2.854109287261963. Trajectories: 267. Mean Length
: 15.340823970037453.
78 Epoch: 11. UP        Mean Return: -2.8508572578430176.   Trajectories: 311. Mean Length
: 13.170418006430868.
79 Epoch: 12. DOWN      Mean Return: -2.8515892028808594.   Trajectories: 227. Mean Length
: 18.044052863436125.
80 Epoch: 13. UP Best ! Mean Return: -2.8433902263641357.   Trajectories: 273. Mean Length
: 15.003663003663004.
81 Epoch: 14. DOWN      Mean Return: -2.857513427734375. Trajectories: 329. Mean Length
: 12.44984802431611.
82 Epoch: 15. UP        Mean Return: -2.843663454055786. Trajectories: 303. Mean Length
: 13.518151815181518.
83 Epoch: 16. DOWN      Mean Return: -2.8568029403686523.   Trajectories: 345. Mean Length
: 11.872463768115942.
84 Epoch: 17. UP        Mean Return: -2.8482120037078857.   Trajectories: 290. Mean Length
: 14.124137931034483.
85 Epoch: 18. DOWN      Mean Return: -2.8523757457733154.   Trajectories: 320. Mean Length
: 12.8.
86 Epoch: 19. UP        Mean Return: -2.846094846725464. Trajectories: 272. Mean Length
: 15.058823529411764.
87 saving models
88 Epoch: 20. DOWN      Mean Return: -2.855867624282837. Trajectories: 335. Mean Length
: 12.226865671641791.
89 Epoch: 21. UP        Mean Return: -2.854179620742798. Trajectories: 251. Mean Length
: 16.318725099601593.
90 Epoch: 22. UP        Mean Return: -2.8486227989196777.   Trajectories: 321. Mean Length
: 12.7601246105919.
91 Epoch: 23. DOWN      Mean Return: -2.8500702381134033.   Trajectories: 357. Mean Length
: 11.473389355742297.
92 Epoch: 24. DOWN      Mean Return: -2.8590309619903564.   Trajectories: 275. Mean Length
: 14.894545454545455.
93 Epoch: 25. UP        Mean Return: -2.84763240814209. Trajectories: 286. Mean Length
: 14.321678321678322.
94 Epoch: 26. DOWN      Mean Return: -2.8483521938323975.   Trajectories: 276. Mean Length
: 14.840579710144928.
95 Epoch: 27. UP        Mean Return: -2.843820571899414. Trajectories: 276. Mean Length
: 14.840579710144928.
96 Epoch: 28. DOWN      Mean Return: -2.8492562770843506.   Trajectories: 263. Mean Length
: 15.574144486692015.
97 Epoch: 29. DOWN      Mean Return: -2.857635974884033. Trajectories: 340. Mean Length
: 12.047058823529412.
98 saving models
99 Epoch: 30. UP        Mean Return: -2.8534810543060303.   Trajectories: 315. Mean Length
: 13.003174603174603.
100 Epoch: 31. UP       Mean Return: -2.8506228923797607.   Trajectories: 265. Mean Length
: 15.456603773584906.
101 Epoch: 32. DOWN     Mean Return: -2.854870319366455. Trajectories: 303. Mean Length
: 13.518151815181518.
102 Epoch: 33. DOWN     Mean Return: -2.856419324874878. Trajectories: 279. Mean Length
: 14.68100358422939.
103 Epoch: 34. UP Best ! Mean Return: -2.841822385787964. Trajectories: 273. Mean Length
: 15.003663003663004.
104 Epoch: 35. DOWN     Mean Return: -2.8585641384124756.   Trajectories: 356. Mean Length
: 11.50561797752809.
105 Epoch: 36. UP        Mean Return: -2.844931125640869. Trajectories: 314. Mean Length
: 13.044585987261147.
106 Epoch: 37. DOWN     Mean Return: -2.8515782356262207.   Trajectories: 308. Mean Length
: 13.2987012987013.
107 Epoch: 38. UP        Mean Return: -2.8506860733032227.   Trajectories: 324. Mean Length
: 12.641975308641975.
108 Epoch: 39. DOWN     Mean Return: -2.8509521484375.   Trajectories: 317. Mean Length
: 12.921135646687697.
109 saving models
110 Epoch: 40. DOWN     Mean Return: -2.85133695602417. Trajectories: 347. Mean Length
: 11.804034582132564.

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111 Epoch: 41. DOWN : 14.68100358422939.	Mean Return: -2.8530240058898926.	Trajectories: 279. Mean Length
112 Epoch: 42. DOWN : 14.27177700348432.	Mean Return: -2.8578097820281982.	Trajectories: 287. Mean Length
113 Epoch: 43. UP : 12.525993883792049.	Mean Return: -2.854828119277954.	Trajectories: 327. Mean Length
114 Epoch: 44. DOWN : 15.398496240601503.	Mean Return: -2.855372428894043.	Trajectories: 266. Mean Length
115 Epoch: 45. UP : 12.603076923076923.	Mean Return: -2.852165937423706.	Trajectories: 325. Mean Length
116 Epoch: 46. UP : 18.533936651583712.	Mean Return: -2.845799684524536.	Trajectories: 221. Mean Length
117 Epoch: 47. DOWN : 17.13807531380753.	Mean Return: -2.8511412143707275.	Trajectories: 239. Mean Length
118 Epoch: 48. UP Best ! : 16.718367346938777.	Mean Return: -2.8341310024261475.	Trajectories: 245. Mean Length
119 Epoch: 49. DOWN : 14.075601374570446.	Mean Return: -2.8463294506073.	Trajectories: 291. Mean Length
120 saving models		
121 Epoch: 50. DOWN : 15.574144486692015.	Mean Return: -2.8470067977905273.	Trajectories: 263. Mean Length
122 Epoch: 51. DOWN : 15.574144486692015.	Mean Return: -2.852640151977539.	Trajectories: 263. Mean Length
123 Epoch: 52. UP : 12.603076923076923.	Mean Return: -2.8501298427581787.	Trajectories: 325. Mean Length
124 Epoch: 53. UP : 16.253968253968253.	Mean Return: -2.839315414428711.	Trajectories: 252. Mean Length
125 Epoch: 54. DOWN : 13.74496644295302.	Mean Return: -2.8593757152557373.	Trajectories: 298. Mean Length
126 Epoch: 55. UP : 13.60797342192691.	Mean Return: -2.8525731563568115.	Trajectories: 301. Mean Length
127 Epoch: 56. DOWN : 16.0.	Mean Return: -2.853767156600952.	Trajectories: 256. Mean Length
128 Epoch: 57. UP : 11.976608187134502.	Mean Return: -2.8515491485595703.	Trajectories: 342. Mean Length
129 Epoch: 58. DOWN : 12.487804878048781.	Mean Return: -2.8522019386291504.	Trajectories: 328. Mean Length
130 Epoch: 59. DOWN : 12.337349397590362.	Mean Return: -2.8615541458129883.	Trajectories: 332. Mean Length
131 saving models		
132 Epoch: 60. UP : 15.003663003663004.	Mean Return: -2.847395181655884.	Trajectories: 273. Mean Length
133 Epoch: 61. DOWN : 16.78688524590164.	Mean Return: -2.852025270462036.	Trajectories: 244. Mean Length
134 Epoch: 62. DOWN : 13.653333333333334.	Mean Return: -2.8598740100860596.	Trajectories: 300. Mean Length
135 Epoch: 63. DOWN : 14.27177700348432.	Mean Return: -2.8620471954345703.	Trajectories: 287. Mean Length
136 Epoch: 64. UP : 15.753846153846155.	Mean Return: -2.846853256225586.	Trajectories: 260. Mean Length
137 Epoch: 65. DOWN : 15.814671814671815.	Mean Return: -2.848520517349243.	Trajectories: 259. Mean Length
138 Epoch: 66. UP : 15.456603773584906.	Mean Return: -2.846788167953491.	Trajectories: 265. Mean Length
139 Epoch: 67. DOWN : 15.515151515151516.	Mean Return: -2.857595443725586.	Trajectories: 264. Mean Length
140 Epoch: 68. DOWN : 11.702857142857143.	Mean Return: -2.8576509952545166.	Trajectories: 350. Mean Length
141 Epoch: 69. UP : 15.340823970037453.	Mean Return: -2.854877471923828.	Trajectories: 267. Mean Length
142 saving models		
143 Epoch: 70. UP : 14.422535211267606.	Mean Return: -2.8463449478149414.	Trajectories: 284. Mean Length
144 Epoch: 71. DOWN : 16.99585062240664.	Mean Return: -2.8524563312530518.	Trajectories: 241. Mean Length
145 Epoch: 72. UP : 15.875968992248062.	Mean Return: -2.839792251586914.	Trajectories: 258. Mean Length

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146	Epoch: 73. DOWN : 13.128205128205128.	Mean Return: -2.85396146774292. Trajectories: 312. Mean Length
147	Epoch: 74. UP : 14.027397260273972.	Mean Return: -2.846545934677124. Trajectories: 292. Mean Length
148	Epoch: 75. DOWN : 17.429787234042553.	Mean Return: -2.8576107025146484. Trajectories: 235. Mean Length
149	Epoch: 76. UP : 16.718367346938777.	Mean Return: -2.8399314880371094. Trajectories: 245. Mean Length
150	Epoch: 77. DOWN : 13.74496644295302.	Mean Return: -2.859457492828369. Trajectories: 298. Mean Length
151	Epoch: 78. UP : 13.79124579124579.	Mean Return: -2.8361921310424805. Trajectories: 297. Mean Length
152	Epoch: 79. DOWN : 15.814671814671815.	Mean Return: -2.848635196685791. Trajectories: 259. Mean Length
153	saving models	
154	Epoch: 80. DOWN : 14.894545454545455.	Mean Return: -2.8488306999206543. Trajectories: 275. Mean Length
155	Epoch: 81. DOWN : 13.698996655518394.	Mean Return: -2.8511600494384766. Trajectories: 299. Mean Length
156	Epoch: 82. UP : 12.118343195266272.	Mean Return: -2.844388008117676. Trajectories: 338. Mean Length
157	Epoch: 83. DOWN : 16.0.	Mean Return: -2.8593356609344482. Trajectories: 256. Mean Length
158	Epoch: 84. UP : 15.753846153846155.	Mean Return: -2.8443167209625244. Trajectories: 260. Mean Length
159	Epoch: 85. DOWN : 13.342019543973942.	Mean Return: -2.852386951446533. Trajectories: 307. Mean Length
160	Epoch: 86. DOWN : 16.062745098039215.	Mean Return: -2.8563170433044434. Trajectories: 255. Mean Length
161	Epoch: 87. UP : 13.884745762711864.	Mean Return: -2.84438157081604. Trajectories: 295. Mean Length
162	Epoch: 88. DOWN : 13.38562091503268.	Mean Return: -2.858921766281128. Trajectories: 306. Mean Length
163	Epoch: 89. DOWN : 14.075601374570446.	Mean Return: -2.8653948307037354. Trajectories: 291. Mean Length
164	saving models	
165	Epoch: 90. UP : 11.160762942779291.	Mean Return: -2.8529043197631836. Trajectories: 367. Mean Length
166	Epoch: 91. UP : 16.516129032258064.	Mean Return: -2.849452495574951. Trajectories: 248. Mean Length
167	Epoch: 92. DOWN : 13.2987012987013.	Mean Return: -2.8659157752990723. Trajectories: 308. Mean Length
168	Epoch: 93. UP : 11.252747252747254.	Mean Return: -2.858355760574341. Trajectories: 364. Mean Length
169	Epoch: 94. UP : 12.8.	Mean Return: -2.848116636276245. Trajectories: 320. Mean Length
170	Epoch: 95. DOWN : 13.38562091503268.	Mean Return: -2.8600356578826904. Trajectories: 306. Mean Length
171	Epoch: 96. DOWN : 13.044585987261147.	Mean Return: -2.870826482772827. Trajectories: 314. Mean Length
172	Epoch: 97. UP : 12.08259587020649.	Mean Return: -2.8607399463653564. Trajectories: 339. Mean Length
173	Epoch: 98. UP : 14.473498233215548.	Mean Return: -2.846111536026001. Trajectories: 283. Mean Length
174	Epoch: 99. UP : 13.60797342192691.	Mean Return: -2.8417654037475586. Trajectories: 301. Mean Length
175	saving models	
176	Epoch: 100. DOWN : 13.74496644295302.	Mean Return: -2.8502416610717773. Trajectories: 298. Mean Length
177	Epoch: 101. DOWN : 15.875968992248062.	Mean Return: -2.8538870811462402. Trajectories: 258. Mean Length
178	Epoch: 102. UP : 12.19047619047619.	Mean Return: -2.8529863357543945. Trajectories: 336. Mean Length
179	Epoch: 103. DOWN : 12.337349397590362.	Mean Return: -2.862680196762085. Trajectories: 332. Mean Length
180	Epoch: 104. UP : 14.576512455516013.	Mean Return: -2.845167398452759. Trajectories: 281. Mean Length

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181 Epoch: 105. DOWN : 14.27177700348432.	Mean Return: -2.8617899417877197.	Trajectories: 287.	Mean Length
182 Epoch: 106. UP : 14.321678321678322.	Mean Return: -2.8550939559936523.	Trajectories: 286.	Mean Length
183 Epoch: 107. UP : 14.576512455516013.	Mean Return: -2.850818395614624.	Trajectories: 281.	Mean Length
184 Epoch: 108. DOWN : 12.962025316455696.	Mean Return: -2.8574819564819336.	Trajectories: 316.	Mean Length
185 Epoch: 109. UP : 18.788990825688074.	Mean Return: -2.842135190963745.	Trajectories: 218.	Mean Length
186 saving models			
187 Epoch: 110. DOWN : 14.52482269503546.	Mean Return: -2.8522579669952393.	Trajectories: 282.	Mean Length
188 Epoch: 111. UP : 12.681114551083592.	Mean Return: -2.846505880355835.	Trajectories: 323.	Mean Length
189 Epoch: 112. UP : 20.07843137254902.	Mean Return: -2.8433678150177.	Trajectories: 204.	Mean Length
190 Epoch: 113. UP : 17.282700421940927.	Mean Return: -2.836740255355835.	Trajectories: 237.	Mean Length
191 Epoch: 114. DOWN : 11.07027027027027.	Mean Return: -2.853583574295044.	Trajectories: 370.	Mean Length
192 Epoch: 115. UP : 14.68100358422939.	Mean Return: -2.843759298324585.	Trajectories: 279.	Mean Length
193 Epoch: 116. DOWN : 14.124137931034483.	Mean Return: -2.84562349319458.	Trajectories: 290.	Mean Length
194 Epoch: 117. DOWN : 12.84012539184953.	Mean Return: -2.84926176071167.	Trajectories: 319.	Mean Length
195 Epoch: 118. DOWN : 14.628571428571428.	Mean Return: -2.8529579639434814.	Trajectories: 280.	Mean Length
196 Epoch: 119. UP : 15.340823970037453.	Mean Return: -2.8492014408111572.	Trajectories: 267.	Mean Length
197 saving models			
198 Epoch: 120. DOWN : 12.487804878048781.	Mean Return: -2.849846839904785.	Trajectories: 328.	Mean Length
199 Epoch: 121. DOWN : 11.66951566951567.	Mean Return: -2.868957757949829.	Trajectories: 351.	Mean Length
200 Epoch: 122. UP : 14.52482269503546.	Mean Return: -2.856076955795288.	Trajectories: 282.	Mean Length
201 Epoch: 123. UP : 15.003663003663004.	Mean Return: -2.850672483444214.	Trajectories: 273.	Mean Length
202 Epoch: 124. DOWN : 14.894545454545455.	Mean Return: -2.8560962677001953.	Trajectories: 275.	Mean Length
203 Epoch: 125. UP : 12.962025316455696.	Mean Return: -2.854196548461914.	Trajectories: 316.	Mean Length
204 Epoch: 126. UP : 14.173010380622838.	Mean Return: -2.843590259552002.	Trajectories: 289.	Mean Length
205 Epoch: 127. DOWN : 18.703196347031962.	Mean Return: -2.8512632846832275.	Trajectories: 219.	Mean Length
206 Epoch: 128. UP : 14.075601374570446.	Mean Return: -2.84850811958313.	Trajectories: 291.	Mean Length
207 Epoch: 129. UP : 15.226765799256505.	Mean Return: -2.84718918800354.	Trajectories: 269.	Mean Length
208 saving models			
209 Epoch: 130. DOWN : 16.78688524590164.	Mean Return: -2.8538527488708496.	Trajectories: 244.	Mean Length
210 Epoch: 131. UP : 19.504761904761907.	Mean Return: -2.8465261459350586.	Trajectories: 210.	Mean Length
211 Epoch: 132. DOWN : 13.342019543973942.	Mean Return: -2.857466697692871.	Trajectories: 307.	Mean Length
212 Epoch: 133. UP : 15.574144486692015.	Mean Return: -2.8550405502319336.	Trajectories: 263.	Mean Length
213 Epoch: 134. UP : 17.282700421940927.	Mean Return: -2.8474111557006836.	Trajectories: 237.	Mean Length
214 Epoch: 135. DOWN : 12.921135646687697.	Mean Return: -2.8524155616760254.	Trajectories: 317.	Mean Length
215 Epoch: 136. UP : 12.84012539184953.	Mean Return: -2.850445508956909.	Trajectories: 319.	Mean Length

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216	Epoch: 137. UP : 12.154302670623146.	Mean Return: -2.847599983215332. Trajectories: 337. Mean Length
217	Epoch: 138. UP : 14.787003610108304.	Mean Return: -2.8403828144073486. Trajectories: 277. Mean Length
218	Epoch: 139. DOWN : 14.173010380622838.	Mean Return: -2.847116470336914. Trajectories: 289. Mean Length
219	saving models	
220	Epoch: 140. DOWN : 15.170370370370371.	Mean Return: -2.8506453037261963. Trajectories: 270. Mean Length
221	Epoch: 141. DOWN : 12.011730205278592.	Mean Return: -2.8591856956481934. Trajectories: 341. Mean Length
222	Epoch: 142. UP : 17.88646288209607.	Mean Return: -2.8480162620544434. Trajectories: 229. Mean Length
223	Epoch: 143. DOWN : 13.884745762711864.	Mean Return: -2.8495638370513916. Trajectories: 295. Mean Length
224	Epoch: 144. UP : 14.321678321678322.	Mean Return: -2.8464863300323486. Trajectories: 286. Mean Length
225	Epoch: 145. DOWN : 15.693486590038313.	Mean Return: -2.852428674697876. Trajectories: 261. Mean Length
226	Epoch: 146. UP : 14.124137931034483.	Mean Return: -2.8498005867004395. Trajectories: 290. Mean Length
227	Epoch: 147. DOWN : 12.641975308641975.	Mean Return: -2.8521320819854736. Trajectories: 324. Mean Length
228	Epoch: 148. DOWN : 13.653333333333334.	Mean Return: -2.8568179607391357. Trajectories: 300. Mean Length
229	Epoch: 149. DOWN : 12.374622356495468.	Mean Return: -2.8605592250823975. Trajectories: 331. Mean Length
230	saving models	
231	Epoch: 150. UP : 14.840579710144928.	Mean Return: -2.8535170555114746. Trajectories: 276. Mean Length
232	Epoch: 151. UP : 16.650406504065042.	Mean Return: -2.8502590656280518. Trajectories: 246. Mean Length
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239	Epoch: 158. UP : 16.650406504065042.	Mean Return: -2.8493151664733887. Trajectories: 246. Mean Length
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241	saving models	
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246	Epoch: 164. UP : 12.720496894409937.	Mean Return: -2.8474090099334717. Trajectories: 322. Mean Length
247	Epoch: 165. DOWN : 13.931972789115646.	Mean Return: -2.856753349304199. Trajectories: 294. Mean Length
248	Epoch: 166. UP : 14.075601374570446.	Mean Return: -2.850891351699829. Trajectories: 291. Mean Length
249	Epoch: 167. DOWN : 13.128205128205128.	Mean Return: -2.8535797595977783. Trajectories: 312. Mean Length
250	Epoch: 168. UP Best ! Mean Return: -2.831878900527954.	Trajectories: 213. Mean Length
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File - main

251 Epoch: 169. DOWN : 14.124137931034483.	Mean Return: -2.8607356548309326.	Trajectories: 290. Mean Length
252 saving models		
253 Epoch: 170. UP : 17.88646288209607.	Mean Return: -2.8392083644866943.	Trajectories: 229. Mean Length
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273 Epoch: 189. DOWN : 14.473498233215548.	Mean Return: -2.8506276607513428.	Trajectories: 283. Mean Length
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276 Epoch: 191. DOWN : 14.840579710144928.	Mean Return: -2.853793144226074.	Trajectories: 276. Mean Length
277 Epoch: 192. UP : 14.68100358422939.	Mean Return: -2.8499863147735596.	Trajectories: 279. Mean Length
278 Epoch: 193. DOWN : 12.374622356495468.	Mean Return: -2.851372241973877.	Trajectories: 331. Mean Length
279 Epoch: 194. DOWN : 14.94890510948905.	Mean Return: -2.8590087890625.	Trajectories: 274. Mean Length
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281 Epoch: 196. DOWN : 13.884745762711864.	Mean Return: -2.8564040660858154.	Trajectories: 295. Mean Length
282 Epoch: 197. DOWN : 11.570621468926554.	Mean Return: -2.8569235801696777.	Trajectories: 354. Mean Length
283 Epoch: 198. DOWN : 12.56441717791411.	Mean Return: -2.859147071838379.	Trajectories: 326. Mean Length
284 Epoch: 199. UP : 16.449799196787147.	Mean Return: -2.8416852951049805.	Trajectories: 249. Mean Length
285 saving models		
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291 Process finished with exit code 0

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