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1 C:\Users\Shravani\PycharmProjects\pythonProject1\venv\Scripts\python.exe C:/Users/Shravani/PycharmProjects/pythonProject/lab1_gym.py
2 Shravani 17070123120
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    EnvSpec(PitfallNoFrameskip-v0), EnvSpec(PitfallNoFrameskip-
    v4), EnvSpec(Pitfall-ram-v0), EnvSpec(Pitfall-ram-v4), EnvSpec(
    Pitfall-ramDeterministic-v0), EnvSpec(Pitfall-ramDeterministic-
    v4), EnvSpec(Pitfall-ramNoFrameskip-v0), EnvSpec(Pitfall-
    ramNoFrameskip-v4), EnvSpec(Pong-v0), EnvSpec(Pong-v4),
    EnvSpec(PongDeterministic-v0), EnvSpec(PongDeterministic-v4
    ), EnvSpec(PongNoFrameskip-v0), EnvSpec(PongNoFrameskip-
    v4), EnvSpec(Pong-ram-v0), EnvSpec(Pong-ram-v4), EnvSpec(
    Pong-ramDeterministic-v0), EnvSpec(Pong-ramDeterministic-v4
    ), EnvSpec(Pong-ramNoFrameskip-v0), EnvSpec(Pong-
    ramNoFrameskip-v4), EnvSpec(Pooyan-v0), EnvSpec(Pooyan-v4
    ), EnvSpec(PooyanDeterministic-v0), EnvSpec(
    PooyanDeterministic-v4), EnvSpec(PooyanNoFrameskip-v0),
    EnvSpec(PooyanNoFrameskip-v4), EnvSpec(Pooyan-ram-v0),
    EnvSpec(Pooyan-ram-v4), EnvSpec(Pooyan-ramDeterministic-
    v0), EnvSpec(Pooyan-ramDeterministic-v4), EnvSpec(Pooyan-
    ramNoFrameskip-v0), EnvSpec(Pooyan-ramNoFrameskip-v4),
    EnvSpec(PrivateEye-v0), EnvSpec(PrivateEye-v4), EnvSpec(
    PrivateEyeDeterministic-v0), EnvSpec(PrivateEyeDeterministic-
    v4), EnvSpec(PrivateEyeNoFrameskip-v0), EnvSpec(
    PrivateEyeNoFrameskip-v4), EnvSpec(PrivateEye-ram-v0),
```

3 EnvSpec(PrivateEye-ram-v4), EnvSpec(PrivateEye-ramDeterministic-v0), EnvSpec(PrivateEye-ramDeterministic-v4), EnvSpec(PrivateEye-ramNoFrameskip-v0), EnvSpec(PrivateEye-ramNoFrameskip-v4), EnvSpec(Qbert-v0), EnvSpec(Qbert-v4), EnvSpec(QbertDeterministic-v0), EnvSpec(QbertDeterministic-v4), EnvSpec(QbertNoFrameskip-v0), EnvSpec(QbertNoFrameskip-v4), EnvSpec(Qbert-ram-v0), EnvSpec(Qbert-ram-v4), EnvSpec(Qbert-ramDeterministic-v0), EnvSpec(Qbert-ramDeterministic-v4), EnvSpec(Qbert-ramNoFrameskip-v0), EnvSpec(Qbert-ramNoFrameskip-v4), EnvSpec(Riverraid-v0), EnvSpec(Riverraid-v4), EnvSpec(RiverraidDeterministic-v0), EnvSpec(RiverraidDeterministic-v4), EnvSpec(RiverraidNoFrameskip-v0), EnvSpec(RiverraidNoFrameskip-v4), EnvSpec(Riverraid-ram-v0), EnvSpec(Riverraid-ram-v4), EnvSpec(Riverraid-ramDeterministic-v0), EnvSpec(Riverraid-ramDeterministic-v4), EnvSpec(Riverraid-ramNoFrameskip-v0), EnvSpec(Riverraid-ramNoFrameskip-v4), EnvSpec(RoadRunner-v0), EnvSpec(RoadRunner-v4), EnvSpec(RoadRunnerDeterministic-v0), EnvSpec(RoadRunnerDeterministic-v4), EnvSpec(RoadRunnerNoFrameskip-v0), EnvSpec(RoadRunnerNoFrameskip-v4), EnvSpec(RoadRunner-ram-v0), EnvSpec(RoadRunner-ram-v4), EnvSpec(RoadRunner-ramDeterministic-v0), EnvSpec(RoadRunner-ramDeterministic-v4), EnvSpec(RoadRunner-ramNoFrameskip-v0), EnvSpec(RoadRunner-ramNoFrameskip-v4), EnvSpec(Robotank-v0), EnvSpec(Robotank-v4), EnvSpec(RobotankDeterministic-v0), EnvSpec(RobotankDeterministic-v4), EnvSpec(RobotankNoFrameskip-v0), EnvSpec(RobotankNoFrameskip-v4), EnvSpec(Robotank-ram-v0), EnvSpec(Robotank-ram-v4), EnvSpec(Robotank-ramDeterministic-v0), EnvSpec(Robotank-ramDeterministic-v4), EnvSpec(Robotank-ramNoFrameskip-v0), EnvSpec(Robotank-ramNoFrameskip-v4), EnvSpec(Seaquest-v0), EnvSpec(Seaquest-v4), EnvSpec(SeaquestDeterministic-v0),

3 EnvSpec(SeaquestDeterministic-v4), EnvSpec(SeaquestNoFrameskip-v0), EnvSpec(SeaquestNoFrameskip-v4), EnvSpec(Seaquest-ram-v0), EnvSpec(Seaquest-ram-v4), EnvSpec(Seaquest-ramDeterministic-v0), EnvSpec(Seaquest-ramDeterministic-v4), EnvSpec(Seaquest-ramNoFrameskip-v0), EnvSpec(Seaquest-ramNoFrameskip-v4), EnvSpec(Skiing-v0), EnvSpec(Skiing-v4), EnvSpec(SkiingDeterministic-v0), EnvSpec(SkiingDeterministic-v4), EnvSpec(SkiingNoFrameskip-v0), EnvSpec(SkiingNoFrameskip-v4), EnvSpec(Skiing-ram-v0), EnvSpec(Skiing-ram-v4), EnvSpec(Skiing-ramDeterministic-v0), EnvSpec(Skiing-ramDeterministic-v4), EnvSpec(Skiing-ramNoFrameskip-v0), EnvSpec(Skiing-ramNoFrameskip-v4), EnvSpec(Solaris-v0), EnvSpec(Solaris-v4), EnvSpec(SolarisDeterministic-v0), EnvSpec(SolarisDeterministic-v4), EnvSpec(SolarisNoFrameskip-v0), EnvSpec(SolarisNoFrameskip-v4), EnvSpec(Solaris-ram-v0), EnvSpec(Solaris-ram-v4), EnvSpec(Solaris-ramDeterministic-v0), EnvSpec(Solaris-ramDeterministic-v4), EnvSpec(Solaris-ramNoFrameskip-v0), EnvSpec(Solaris-ramNoFrameskip-v4), EnvSpec(SpaceInvaders-v0), EnvSpec(SpaceInvaders-v4), EnvSpec(SpaceInvadersDeterministic-v0), EnvSpec(SpaceInvadersDeterministic-v4), EnvSpec(SpaceInvadersNoFrameskip-v0), EnvSpec(SpaceInvadersNoFrameskip-v4), EnvSpec(SpaceInvaders-ram-v0), EnvSpec(SpaceInvaders-ram-v4), EnvSpec(SpaceInvaders-ramDeterministic-v0), EnvSpec(SpaceInvaders-ramDeterministic-v4), EnvSpec(SpaceInvaders-ramNoFrameskip-v0), EnvSpec(SpaceInvaders-ramNoFrameskip-v4), EnvSpec(StarGunner-v0), EnvSpec(StarGunner-v4), EnvSpec(StarGunnerDeterministic-v0), EnvSpec(StarGunnerDeterministic-v4), EnvSpec(StarGunnerNoFrameskip-v0), EnvSpec(StarGunnerNoFrameskip-v4), EnvSpec(StarGunner-ram-v0), EnvSpec(StarGunner-ram-v4), EnvSpec(StarGunner-ramDeterministic-v0), EnvSpec(StarGunner-ramDeterministic-v4)

3 v4), EnvSpec(StarGunner-ramNoFrameskip-v0), EnvSpec(StarGunner-ramNoFrameskip-v4), EnvSpec(Tennis-v0), EnvSpec(Tennis-v4), EnvSpec(TennisDeterministic-v0), EnvSpec(TennisDeterministic-v4), EnvSpec(TennisNoFrameskip-v0), EnvSpec(TennisNoFrameskip-v4), EnvSpec(Tennis-ram-v0), EnvSpec(Tennis-ram-v4), EnvSpec(Tennis-ramDeterministic-v0), EnvSpec(Tennis-ramDeterministic-v4), EnvSpec(Tennis-ramNoFrameskip-v0), EnvSpec(Tennis-ramNoFrameskip-v4), EnvSpec(TimePilot-v0), EnvSpec(TimePilot-v4), EnvSpec(TimePilotDeterministic-v0), EnvSpec(TimePilotDeterministic-v4), EnvSpec(TimePilotNoFrameskip-v0), EnvSpec(TimePilotNoFrameskip-v4), EnvSpec(TimePilot-ram-v0), EnvSpec(TimePilot-ram-v4), EnvSpec(TimePilot-ramDeterministic-v0), EnvSpec(TimePilot-ramDeterministic-v4), EnvSpec(TimePilot-ramNoFrameskip-v0), EnvSpec(TimePilot-ramNoFrameskip-v4), EnvSpec(Tutankham-v0), EnvSpec(Tutankham-v4), EnvSpec(TutankhamDeterministic-v0), EnvSpec(TutankhamDeterministic-v4), EnvSpec(TutankhamNoFrameskip-v0), EnvSpec(TutankhamNoFrameskip-v4), EnvSpec(Tutankham-ram-v0), EnvSpec(Tutankham-ram-v4), EnvSpec(Tutankham-ramDeterministic-v0), EnvSpec(Tutankham-ramDeterministic-v4), EnvSpec(Tutankham-ramNoFrameskip-v0), EnvSpec(Tutankham-ramNoFrameskip-v4), EnvSpec(UpNDown-v0), EnvSpec(UpNDown-v4), EnvSpec(UpNDownDeterministic-v0), EnvSpec(UpNDownDeterministic-v4), EnvSpec(UpNDownNoFrameskip-v0), EnvSpec(UpNDownNoFrameskip-v4), EnvSpec(UpNDown-ram-v0), EnvSpec(UpNDown-ram-v4), EnvSpec(UpNDown-ramDeterministic-v0), EnvSpec(UpNDown-ramDeterministic-v4), EnvSpec(UpNDown-ramNoFrameskip-v0), EnvSpec(UpNDown-ramNoFrameskip-v4), EnvSpec(Venture-v0), EnvSpec(Venture-v4), EnvSpec(VentureDeterministic-v0), EnvSpec(VentureDeterministic-v4), EnvSpec(VentureNoFrameskip-v0), EnvSpec(VentureNoFrameskip-v4), EnvSpec(Venture-ram-v0),

3 EnvSpec(Venture-ram-v4), EnvSpec(Venture-ramDeterministic-v0), EnvSpec(Venture-ramDeterministic-v4), EnvSpec(Venture-ramNoFrameskip-v0), EnvSpec(Venture-ramNoFrameskip-v4), EnvSpec(VideoPinball-v0), EnvSpec(VideoPinball-v4), EnvSpec(VideoPinballDeterministic-v0), EnvSpec(VideoPinballDeterministic-v4), EnvSpec(VideoPinballNoFrameskip-v0), EnvSpec(VideoPinballNoFrameskip-v4), EnvSpec(VideoPinball-ram-v0), EnvSpec(VideoPinball-ram-v4), EnvSpec(VideoPinball-ramDeterministic-v0), EnvSpec(VideoPinball-ramDeterministic-v4), EnvSpec(VideoPinball-ramNoFrameskip-v0), EnvSpec(VideoPinball-ramNoFrameskip-v4), EnvSpec(WizardOfWor-v0), EnvSpec(WizardOfWor-v4), EnvSpec(WizardOfWorDeterministic-v0), EnvSpec(WizardOfWorDeterministic-v4), EnvSpec(WizardOfWorNoFrameskip-v0), EnvSpec(WizardOfWorNoFrameskip-v4), EnvSpec(WizardOfWor-ram-v0), EnvSpec(WizardOfWor-ram-v4), EnvSpec(WizardOfWor-ramDeterministic-v0), EnvSpec(WizardOfWor-ramDeterministic-v4), EnvSpec(WizardOfWor-ramNoFrameskip-v0), EnvSpec(WizardOfWor-ramNoFrameskip-v4), EnvSpec(YarsRevenge-v0), EnvSpec(YarsRevenge-v4), EnvSpec(YarsRevengeDeterministic-v0), EnvSpec(YarsRevengeDeterministic-v4), EnvSpec(YarsRevengeNoFrameskip-v0), EnvSpec(YarsRevengeNoFrameskip-v4), EnvSpec(YarsRevenge-ram-v0), EnvSpec(YarsRevenge-ram-v4), EnvSpec(YarsRevenge-ramDeterministic-v0), EnvSpec(YarsRevenge-ramDeterministic-v4), EnvSpec(YarsRevenge-ramNoFrameskip-v0), EnvSpec(YarsRevenge-ramNoFrameskip-v4), EnvSpec(Zaxxon-v0), EnvSpec(Zaxxon-v4), EnvSpec(ZaxxonDeterministic-v0), EnvSpec(ZaxxonDeterministic-v4), EnvSpec(ZaxxonNoFrameskip-v0), EnvSpec(ZaxxonNoFrameskip-v4), EnvSpec(Zaxxon-ram-v0), EnvSpec(Zaxxon-ram-v4), EnvSpec(Zaxxon-ramDeterministic-v0), EnvSpec(Zaxxon-ramDeterministic-v4), EnvSpec(Zaxxon-ramNoFrameskip-v0), EnvSpec(Zaxxon-ramNoFrameskip-v4),

```
3 EnvSpec(Zaxxon-ramNoFrameskip-v4), EnvSpec(CubeCrash-v0
), EnvSpec(CubeCrashSparse-v0), EnvSpec(
CubeCrashScreenBecomesBlack-v0), EnvSpec(MemorizeDigits-
v0)]
4 State Space-Discrete(16)
5 Action Space-Discrete(4)
6 [ 0.04303979 -0.18890247  0.04197373  0.30095784]
7 {}
8 [0.03926174 0.00559687 0.04799288 0.02180244]
9 {}
10 [ 0.03937368  0.19999888  0.04842893 -0.25536031]
11 {}
12 [0.04337366 0.00422012 0.04332173 0.05219606]
13 {}
14 [ 0.04345806  0.19869498  0.04436565 -0.22650993]
15 {}
16 [0.04743196 0.00296798 0.03983545 0.07983089]
17 {}
18 [ 0.04749132  0.19749691  0.04143207 -0.20002249]
19 {}
20 [0.05144126 0.00180763 0.03743162 0.10543707]
21 {}
22 [ 0.05147741 -0.19383019  0.03954036  0.40969057]
23 {}
24 [0.0476008 0.00070951 0.04773417 0.12973093]
25 {}
26 [ 0.047615  -0.19506258  0.05032879  0.43708309]
27 {}
28 [ 0.04371374 -0.00068782  0.05907045  0.16068055]
29 {}
30 [ 0.04369999  0.1935409   0.06228406 -0.11279777]
31 {}
32 [ 0.04757081 -0.00241566  0.06002811  0.19886681]
33 {}
```

```
34 [ 0.04752249 -0.19834253  0.06400544  0.50986543]
35 {}
36 [ 0.04355564 -0.0041779  0.07420275  0.23801962]
37 {}
38 [ 0.04347208 -0.20027717  0.07896314  0.55315469]
39 {}
40 [ 0.03946654 -0.00634771  0.09002624  0.28635797]
41 {}
42 [ 0.03933959 -0.20263053  0.0957534   0.60602186]
43 {}
44 [ 0.03528698 -0.00896871  0.10787383  0.34496834]
45 {}
46 [ 0.0351076  -0.20544661  0.1147732   0.66962551]
47 {}
48 [ 0.03099867 -0.40196148  0.12816571  0.99612772]
49 {}
50 [ 0.02295944 -0.20876475  0.14808827  0.74628718]
51 {}
52 [ 0.01878414 -0.40558589  0.16301401  1.08166656]
53 {}
54 [ 0.01067243 -0.21294662  0.18464734  0.84425262]
55 {}
56 [ 0.00641349 -0.02075936  0.20153239  0.61485057]
57 {}
58 [0.00599831 0.17106139 0.2138294  0.3917931 ]
59 {}
60 Episode finished after 27 steps
61 [-0.00413019  0.19697879  0.03801751 -0.30268016]
62 {}
63 [-0.00019062  0.00133622  0.0319639   0.00174611]
64 {}
65 [-1.63894652e-04 -1.94229215e-01  3.19988262e-02  3.04340203e
-01]
66 {}
```

```
67 [-0.00404848 -0.38979223  0.03808563  0.6069406 ]  
68 {}  
69 [-0.01184432 -0.19522291  0.05022444  0.32649273]  
70 {}  
71 [-0.01574878 -0.39102261  0.0567543   0.63458172]  
72 {}  
73 [-0.02356923 -0.19673631  0.06944593  0.3602983 ]  
74 {}  
75 [-0.02750396 -0.0026667   0.0766519   0.09029626]  
76 {}  
77 [-0.02755729 -0.19879888  0.07845782  0.40614428]  
78 {}  
79 [-0.03153327 -0.39494065  0.08658071  0.7224948 ]  
80 {}  
81 [-0.03943208 -0.2011162   0.1010306   0.4582701 ]  
82 {}  
83 [-0.04345441 -0.00755675  0.11019601  0.19906392]  
84 {}  
85 [-0.04360554  0.18583071  0.11417728 -0.0569257 ]  
86 {}  
87 [-0.03988893  0.37914615  0.11303877 -0.31151556]  
88 {}  
89 [-0.03230601  0.18261048  0.10680846  0.01456915]  
90 {}  
91 [-0.0286538   0.37605143  0.10709984 -0.24259674]  
92 {}  
93 [-0.02113277  0.56949353  0.10224791 -0.49967015]  
94 {}  
95 [-0.0097429   0.37308998  0.0922545  -0.17659494]  
96 {}  
97 [-0.0022811   0.17677716  0.08872261  0.14370643]  
98 {}  
99 [ 0.00125445  0.37052385  0.09159673 -0.11972028]  
100 {}
```

```
101 [ 0.00866492 0.56422221 0.08920233 -0.38215802]
102 {}
103 [ 0.01994937 0.75797183 0.08155917 -0.64543625]
104 {}
105 [ 0.0351088 0.95186823 0.06865044 -0.91136223]
106 {}
107 [ 0.05414617 0.75588788 0.0504232 -0.59791678]
108 {}
109 [ 0.06926393 0.95026937 0.03846486 -0.87430028]
110 {}
111 [ 0.08826931 1.14484784 0.02097886 -1.15464622]
112 {}
113 [ 0.11116627 1.33969003 -0.00211407 -1.44067786]
114 {}
115 [ 0.13796007 1.53483795 -0.03092762 -1.73402062]
116 {}
117 [ 0.16865683 1.34008218 -0.06560804 -1.45111794]
118 {}
119 [ 0.19545847 1.14582485 -0.0946304 -1.17963378]
120 {}
121 [ 0.21837497 1.34203939 -0.11822307 -1.50041859]
122 {}
123 [ 0.24521576 1.1485351 -0.14823144 -1.24686488]
124 {}
125 [ 0.26818646 1.34521399 -0.17316874 -1.58206862]
126 {}
127 [ 0.29509074 1.54192202 -0.20481011 -1.92337516]
128 {}
129 [ 0.32592918 1.73857058 -0.24327762 -2.27197705]
130 {}
131 Episode finished after 35 steps
132 [ 0.02206639 -0.23834577 0.02018643 0.27992271]
133 {}
134 [ 0.01729948 -0.04351751 0.02578488 -0.00632574]
```

```
135 []
136 [ 0.01642913 0.15122534 0.02565837 -0.290763 ]
137 []
138 [ 0.01945363 0.34597221 0.01984311 -0.57524442]
139 []
140 [ 0.02637308 0.54081045 0.00833822 -0.86161075]
141 []
142 [ 0.03718929 0.34557596 -0.008894 -0.56631778]
143 []
144 [ 0.04410081 0.54082154 -0.02022035 -0.86178938]
145 []
146 [ 0.05491724 0.73621291 -0.03745614 -1.16076089]
147 []
148 [ 0.06964149 0.93180224 -0.06067136 -1.46494864]
149 []
150 [ 0.08827754 1.12761255 -0.08997033 -1.77595012]
151 []
152 [ 0.11082979 0.93361207 -0.12548933 -1.512542 ]
153 []
154 [ 0.12950203 1.13001042 -0.15574017 -1.84162007]
155 []
156 [ 0.15210224 1.32647087 -0.19257258 -2.17834684]
157 []
158 [ 0.17863166 1.13367363 -0.23613951 -1.95076378]
159 []
160 Episode finished after 14 steps
161 [ 0.00488765 0.15017789 0.0460299 -0.26637449]
162 []
163 [ 0.00789121 0.3446137 0.04070241 -0.54419128]
164 []
165 [ 0.01478348 0.53914075 0.02981858 -0.82377698]
166 []
167 [ 0.0255663 0.73384239 0.01334304 -1.10693425]
168 []
```

```
169 [ 0.04024314  0.53854759 -0.00879564 -0.81009539]
170 {}
171 [ 0.0510141  0.73378894 -0.02499755 -1.10553198]
172 {}
173 [ 0.06568988  0.53900445 -0.04710819 -0.82079502]
174 {}
175 [ 0.07646996  0.34455769 -0.06352409 -0.54329316]
176 {}
177 [ 0.08336112  0.54051216 -0.07438995 -0.85529553]
178 {}
179 [ 0.09417136  0.34647852 -0.09149586 -0.5869005 ]
180 {}
181 [ 0.10110093  0.15274908 -0.10323387 -0.3243841 ]
182 {}
183 [ 0.10415591  0.34917785 -0.10972155 -0.64775549]
184 {}
185 [ 0.11113947  0.54564357 -0.12267666 -0.97287539]
186 {}
187 [ 0.12205234  0.35236216 -0.14213417 -0.72110868]
188 {}
189 [ 0.12909958  0.15946265 -0.15655634 -0.47632412]
190 {}
191 [ 0.13228884  0.3564085 -0.16608283 -0.81396971]
192 {}
193 [ 0.13941701  0.55336801 -0.18236222 -1.15394791]
194 {}
195 [ 0.15048437  0.7503381 -0.20544118 -1.49782163]
196 {}
197 [ 0.16549113  0.55821878 -0.23539761 -1.27567847]
198 {}
199 Episode finished after 19 steps
200 [-0.03865309  0.15304595  0.00877848 -0.28612305]
201 {}
202 [-0.03559217  0.34804162  0.00305601 -0.57602444]
```

```
203 {}
204 [-0.02863134 0.15287696 -0.00846447 -0.28238035]
205 {}
206 [-0.0255738 -0.04212324 -0.01411208 0.00762094]
207 {}
208 [-0.02641626 -0.23703999 -0.01395966 0.29581814]
209 {}
210 [-0.03115706 -0.04172184 -0.0080433 -0.00123454]
211 {}
212 [-0.0319915 0.15351453 -0.00806799 -0.29644434]
213 {}
214 [-0.02892121 0.34875057 -0.01399688 -0.59166082]
215 {}
216 [-0.0219462 0.54406565 -0.02583009 -0.88871969]
217 {}
218 [-0.01106488 0.34930358 -0.04360449 -0.60426724]
219 {}
220 [-0.00407881 0.1548177 -0.05568983 -0.32563137]
221 {}
222 [-0.00098246 -0.03946894 -0.06220246 -0.05101756]
223 {}
224 [-0.00177184 0.15648722 -0.06322281 -0.36265908]
225 {}
226 [ 0.00135791 -0.03768183 -0.07047599 -0.09056252]
227 {}
228 [ 0.00060427 -0.23172656 -0.07228724 0.17907922]
229 {}
230 [-0.00403026 -0.42574362 -0.06870566 0.44811083]
231 {}
232 [-0.01254513 -0.61982984 -0.05974344 0.71836973]
233 {}
234 [-0.02494173 -0.42393428 -0.04537605 0.40749652]
235 {}
236 [-0.03342042 -0.61838444 -0.03722612 0.68553555]
```

```
237 []
238 [-0.04578811 -0.422766 -0.02351541 0.38136922]
239 []
240 [-0.05424343 -0.22731817 -0.01588802 0.08136564]
241 []
242 [-0.05878979 -0.4222088 -0.01426071 0.36899381]
243 []
244 [-0.06723396 -0.61712526 -0.00688083 0.65714626]
245 []
246 [-0.07957647 -0.4219082 0.00626209 0.36230466]
247 []
248 [-0.08801463 -0.22687582 0.01350819 0.07160286]
249 []
250 [-0.09255215 -0.42218879 0.01494024 0.36851688]
251 []
252 [-0.10099593 -0.61751981 0.02231058 0.66587297]
253 []
254 [-0.11334632 -0.81294485 0.03562804 0.96549636]
255 []
256 [-0.12960522 -0.6183191 0.05493797 0.68421542]
257 []
258 [-0.1419716 -0.42400125 0.06862228 0.40932204]
259 []
260 [-0.15045163 -0.62002561 0.07680872 0.72282566]
261 []
262 [-0.16285214 -0.81612119 0.09126523 1.03866136]
263 []
264 [-0.17917456 -0.62232272 0.11203846 0.77596822]
265 []
266 [-0.19162102 -0.42890538 0.12755782 0.52053166]
267 []
268 [-0.20019912 -0.62557042 0.13796845 0.8505329 ]
269 []
270 [-0.21271053 -0.43257217 0.15497911 0.60422066]
```

```
271 []
272 [-0.22136198 -0.23991833 0.16706353 0.36408508]
273 []
274 [-0.22616034 -0.43697168 0.17434523 0.70443836]
275 []
276 [-0.23489978 -0.24463921 0.18843399 0.47131142]
277 []
278 [-0.23979256 -0.0526086 0.19786022 0.24343659]
279 []
280 [-0.24084473 0.13921823 0.20272895 0.01910242]
281 []
282 [-0.23806037 0.33094312 0.203111 -0.20340047]
283 []
284 [-0.23144151 0.52266894 0.19904299 -0.42577255]
285 []
286 [-0.22098813 0.32536663 0.19052754 -0.07752932]
287 []
288 [-0.21448079 0.51731918 0.18897696 -0.3045711 ]
289 []
290 [-0.20413441 0.70931623 0.18288553 -0.53221035]
291 []
292 [-0.18994809 0.51215695 0.17224133 -0.18793435]
293 []
294 [-0.17970495 0.31504295 0.16848264 0.15375057]
295 []
296 [-0.17340409 0.11795954 0.17155765 0.49448962]
297 []
298 [-0.1710449 -0.07911382 0.18144744 0.83595101]
299 []
300 [-0.17262717 -0.27618866 0.19816646 1.17976367]
301 []
302 [-0.17815095 -0.08411228 0.22176174 0.9551681 ]
303 []
304 Episode finished after 52 steps
```

```
305 [ 0.00918645 -0.23047166 -0.03352147  0.27892852]
306 {}
307 [ 0.00457701 -0.03488794 -0.0279429  -0.02413571]
308 {}
309 [ 0.00387925 -0.22959825 -0.02842562  0.2596016 ]
310 {}
311 [-0.00071271 -0.03408228 -0.02323358 -0.04190989]
312 {}
313 [-0.00139436 -0.22886349 -0.02407178  0.24335302]
314 {}
315 [-0.00597163 -0.03340613 -0.01920472 -0.05682451]
316 {}
317 [-0.00663975  0.16198585 -0.02034121 -0.35550427]
318 {}
319 [-0.00340003  0.35739102 -0.0274513  -0.65453129]
320 {}
321 [ 0.00374779  0.16266182 -0.04054192 -0.37061721]
322 {}
323 [ 0.00700103  0.35833562 -0.04795427 -0.67580278]
324 {}
325 [ 0.01416774  0.55408998 -0.06147032 -0.98318992]
326 {}
327 [ 0.02524954  0.35984308 -0.08113412 -0.71043079]
328 {}
329 [ 0.0324464   0.55598934 -0.09534274 -1.02750959]
330 {}
331 [ 0.04356619  0.75224218 -0.11589293 -1.34854019]
332 {}
333 [ 0.05861103  0.55875161 -0.14286373 -1.09424755]
334 {}
335 [ 0.06978606  0.75543661 -0.16474868 -1.42812861]
336 {}
337 [ 0.08489479  0.95216525 -0.19331126 -1.76744321]
338 {}
```

```
339 [ 0.1039381  0.75968142 -0.22866012 -1.54057561]
340 {}
341 Episode finished after 18 steps
342 [-0.01473045 -0.2427227 -0.03436697  0.29753708]
343 {}
344 [-0.01958491 -0.04712813 -0.02841623 -0.00578343]
345 {}
346 [-0.02052747  0.14838958 -0.0285319 -0.30729485]
347 {}
348 [-0.01755968 -0.04631444 -0.0346778 -0.02374493]
349 {}
350 [-0.01848597  0.14928722 -0.0351527 -0.32716425]
351 {}
352 [-0.01550022  0.34489155 -0.04169598 -0.63072224]
353 {}
354 [-0.00860239  0.54056973 -0.05431043 -0.93623947]
355 {}
356 [ 0.002209   0.7363804 -0.07303521 -1.24548183]
357 {}
358 [ 0.01693661  0.54226736 -0.09794485 -0.97654175]
359 {}
360 [ 0.02778196  0.73855669 -0.11747569 -1.29831437]
361 {}
362 [ 0.04255309  0.54510576 -0.14344197 -1.04459643]
363 {}
364 [ 0.05345521  0.74181048 -0.1643339 -1.37865069]
365 {}
366 [ 0.06829142  0.93855837 -0.19190692 -1.71789351]
367 {}
368 [ 0.08706258  0.74608475 -0.22626479 -1.49055809]
369 {}
370 Episode finished after 14 steps
371 [ 0.02042459  0.16249575  0.01162318 -0.24973653]
372 {}
```

```
373 [ 0.0236745  0.35744981  0.00662845 -0.53873072]
374 {}
375 [ 0.0308235  0.55247795 -0.00414616 -0.82931775]
376 {}
377 [ 0.04187306  0.74765633 -0.02073252 -1.12330178]
378 {}
379 [ 0.05682618  0.55281224 -0.04319855 -0.83719337]
380 {}
381 [ 0.06788243  0.74849672 -0.05994242 -1.14314268]
382 {}
383 [ 0.08285236  0.55420701 -0.08280527 -0.86984407]
384 {}
385 [ 0.0939365  0.75035186 -0.10020215 -1.18737016]
386 {}
387 [ 0.10894354  0.94661995 -0.12394956 -1.50970573]
388 {}
389 [ 0.12787594  0.75319888 -0.15414367 -1.25814792]
390 {}
391 [ 0.14293992  0.94992021 -0.17930663 -1.59487022]
392 {}
393 [ 0.16193832  1.14665844 -0.21120404 -1.93768042]
394 {}
395 Episode finished after 12 steps
396 [ 0.02914417  0.22683347  0.00391358 -0.28668026]
397 {}
398 [ 0.03368084  0.42189939 -0.00182003 -0.57812631]
399 {}
400 [ 0.04211883  0.6170468 -0.01338255 -0.87138203]
401 {}
402 [ 0.05445976  0.81234818 -0.03081019 -1.16824222]
403 {}
404 [ 0.07070673  1.00785713 -0.05417504 -1.47042322]
405 {}
406 [ 0.09086387  1.20359829 -0.0835835 -1.77952388]
```

```
407 []
408 [ 0.11493584 1.39955551 -0.11917398 -2.09697851]
409 []
410 [ 0.14292695 1.59565757 -0.16111355 -2.4239995 ]
411 []
412 [ 0.1748401 1.79176151 -0.20959354 -2.76150859]
413 []
414 Episode finished after 9 steps
415 [-0.01933738 -0.24385749 0.00395772 0.32519584]
416 []
417 [-0.02421453 -0.04879212 0.01046164 0.03376364]
418 []
419 [-0.02519037 0.14617826 0.01113691 -0.25560026]
420 []
421 [-0.0222668 -0.04910091 0.00602491 0.04057452]
422 []
423 [-0.02324882 -0.24430874 0.0068364 0.33515226]
424 []
425 [-0.028135 -0.04928475 0.01353944 0.04463299]
426 []
427 [-0.02912069 -0.24459821 0.0144321 0.3415568 ]
428 []
429 [-0.03401265 -0.43992249 0.02126324 0.6387556 ]
430 []
431 [-0.0428111 -0.63533436 0.03403835 0.93805807]
432 []
433 [-0.05551779 -0.83089831 0.05279951 1.24123941]
434 []
435 [-0.07213576 -0.63649247 0.0776243 0.96555287]
436 []
437 [-0.08486561 -0.44249412 0.09693536 0.69823026]
438 []
439 [-0.09371549 -0.24884037 0.11089996 0.43756769]
440 []
```

```
441 [-0.0986923 -0.05544853 0.11965131 0.18179976]
442 {}
443 [-0.09980127 -0.2520613 0.12328731 0.50970394]
444 {}
445 [-0.10484249 -0.05887221 0.13348139 0.25827456]
446 {}
447 [-0.10601994 0.13411664 0.13864688 0.01049347]
448 {}
449 [-0.1033376 -0.06269326 0.13885675 0.34350712]
450 {}
451 [-0.10459147 0.13020831 0.14572689 0.09763263]
452 {}
453 [-0.1019873 -0.066669 0.14767954 0.43251066]
454 {}
455 [-0.10332068 -0.26353949 0.15632976 0.76786218]
456 {}
457 [-0.10859147 -0.46042831 0.171687 1.1053679 ]
458 {}
459 [-0.11780004 -0.6573402 0.19379436 1.4466216 ]
460 {}
461 [-0.13094684 -0.85424483 0.22272679 1.79306921]
462 {}
463 Episode finished after 24 steps
464 [ 0.02997961 0.16039692 0.04512842 -0.26669724]
465 {}
466 [ 0.03318755 -0.03533908 0.03979448 0.03987109]
467 {}
468 [ 0.03248077 -0.23100842 0.0405919 0.34483922]
469 {}
470 [ 0.0278606 -0.0364867 0.04748868 0.06522775]
471 {}
472 [ 0.02713087 0.15792335 0.04879324 -0.21210215]
473 {}
474 [ 0.03028933 -0.03786103 0.0445512 0.09556443]
```

```
475 []
476 [ 0.02953211 -0.23359226  0.04646248  0.40196368]
477 []
478 [ 0.02486027 -0.03915906  0.05450176  0.12428367]
479 []
480 [ 0.02407709 -0.23501775  0.05698743  0.43365106]
481 []
482 [ 0.01937673 -0.04074698  0.06566045  0.1594632 ]
483 []
484 [ 0.01856179  0.15337648  0.06884972 -0.11180423]
485 []
486 [ 0.02162932  0.34744778  0.06661363 -0.38199565]
487 []
488 [ 0.02857828  0.54156376  0.05897372 -0.65295391]
489 []
490 [ 0.03940955  0.73581704  0.04591464 -0.92649906]
491 []
492 [ 0.05412589  0.54010614  0.02738466 -0.61974793]
493 []
494 [ 0.06492802  0.73483513  0.0149897 -0.90368181]
495 []
496 [ 0.07962472  0.92975087 -0.00308394 -1.19161578]
497 []
498 [ 0.09821974  0.73466901 -0.02691625 -0.89990106]
499 []
500 [ 0.11291312  0.93014517 -0.04491427 -1.20092151]
501 []
502 [ 0.13151602  0.73563201 -0.0689327 -0.92264637]
503 []
504 [ 0.14622866  0.93161419 -0.08738563 -1.23617164]
505 []
506 [ 0.16486094  1.12774359 -0.11210906 -1.55490187]
507 []
508 [ 0.18741581  0.93412944 -0.1432071 -1.29919487]
```

```
509 {}
510 [ 0.2060984  0.74108601 -0.169191  -1.05455302]
511 {}
512 [ 0.22092012  0.93799715 -0.19028206 -1.39520747]
513 {}
514 [ 0.23968007  0.74568292 -0.21818621 -1.1675487 ]
515 {}
516 Episode finished after 26 steps
517 [-0.00266107 -0.17799181  0.00274732  0.34147645]
518 {}
519 [-0.0062209 -0.37315274  0.00957685  0.63502445]
520 {}
521 [-0.01368396 -0.17816566  0.02227734  0.3453728 ]
522 {}
523 [-0.01724727  0.01663242  0.02918479  0.05979717]
524 {}
525 [-0.01691462 -0.17889556  0.03038074  0.36154336]
526 {}
527 [-0.02049253  0.01578169  0.0376116   0.07859281]
528 {}
529 [-0.0201769  0.21034484  0.03918346 -0.20199031]
530 {}
531 [-0.01597   0.01468504  0.03514365  0.1027911 ]
532 {}
533 [-0.0156763  0.20928618  0.03719948 -0.17860026]
534 {}
535 [-0.01149058 0.40385659  0.03362747 -0.45931985]
536 {}
537 [-0.00341345 0.20827583  0.02444107 -0.15622995]
538 {}
539 [0.00075207 0.01281263 0.02131648 0.14406225]
540 {}
541 [ 0.00100832 0.20762292 0.02419772 -0.14182023]
542 {}
```

```
543 [ 0.00516078 0.4023901 0.02136132 -0.42677204]
544 {}
545 [ 0.01320858 0.59720309 0.01282588 -0.7126451 ]
546 {}
547 [ 0.02515264 0.40190592 -0.00142703 -0.41595274]
548 {}
549 [ 0.03319076 0.20680422 -0.00974608 -0.12372004]
550 {}
551 [ 0.03732685 0.01182325 -0.01222048 0.16587223]
552 {}
553 [ 0.03756331 -0.18312166 -0.00890304 0.45467503]
554 {}
555 [ 3.39008785e-02 -3.78116602e-01 1.90462556e-04 7.
    44538386e-01]
556 {}
557 [ 0.02633855 -0.57324118 0.01508123 1.03728125]
558 {}
559 [ 0.01487372 -0.3783229 0.03582686 0.74937078]
560 {}
561 [ 0.00730726 -0.18371296 0.05081427 0.46817405]
562 {}
563 [ 0.00363301 -0.37951459 0.06017775 0.77643035]
564 {}
565 [-0.00395729 -0.18526963 0.07570636 0.50327191]
566 {}
567 [-0.00766268 0.00870822 0.0857718 0.23537498]
568 {}
569 [-0.00748851 -0.18752779 0.0904793 0.55383291]
570 {}
571 [-0.01123907 -0.38379599 0.10155595 0.87359561]
572 {}
573 [-0.01891499 -0.19019063 0.11902787 0.61449001]
574 {}
575 [-0.0227188 0.0030847 0.13131767 0.36153991]
```

```
576 []
577 [-0.02265711 -0.19363547 0.13854847 0.69257612]
578 []
579 [-0.02652982 -0.39037988 0.15239999 1.02546783]
580 []
581 [-0.03433742 -0.19757926 0.17290934 0.78425121]
582 []
583 [-0.038289 -0.39460188 0.18859437 1.12596067]
584 []
585 [-0.04618104 -0.20238343 0.21111358 0.89786406]
586 []
587 Episode finished after 35 steps
588 [ 0.04230694 -0.2352496 0.00564061 0.25151632]
589 []
590 [ 0.03760194 -0.04020864 0.01067094 -0.03938212]
591 []
592 [ 0.03679777 -0.23548198 0.00988329 0.2566484 ]
593 []
594 [ 0.03208813 -0.43074363 0.01501626 0.55243221]
595 []
596 [ 0.02347326 -0.23583575 0.02606491 0.26451796]
597 []
598 [ 0.01875654 -0.43131984 0.03135526 0.56530672]
599 []
600 [ 0.01013015 -0.2366515 0.0426614 0.28266468]
601 []
602 [ 0.00539712 -0.04216319 0.04831469 0.0037363 ]
603 []
604 [ 0.00455385 0.15223375 0.04838942 -0.27331986]
605 []
606 [ 0.00759853 -0.04354405 0.04292302 0.03422403]
607 []
608 [ 0.00672765 -0.23925441 0.0436075 0.34013467]
609 []
```

```
610 [ 0.00194256 -0.04477918  0.0504102  0.0615157 ]
611 {}
612 [ 0.00104698 -0.2405863  0.05164051  0.36966759]
613 {}
614 [-0.00376475 -0.04623464  0.05903386  0.09370429]
615 {}
616 [-0.00468944  0.14799368  0.06090795 -0.1797848 ]
617 {}
618 [-0.00172957 -0.04794458  0.05731225  0.13147347]
619 {}
620 [-0.00268846 -0.24383868  0.05994172  0.44167273]
621 {}
622 [-0.00756524 -0.43975538  0.06877518  0.75263231]
623 {}
624 [-0.01636034 -0.63575485  0.08382782  1.06614045]
625 {}
626 [-0.02907544 -0.83187994  0.10515063  1.38391156]
627 {}
628 [-0.04571304 -1.0281445  0.13282886  1.70753973]
629 {}
630 [-0.06627593 -0.83477662  0.16697966  1.45897987]
631 {}
632 [-0.08297146 -1.03150623  0.19615925  1.7988341 ]
633 {}
634 [-0.10360159 -0.83904555  0.23213594  1.57298117]
635 {}
636 Episode finished after 24 steps
637 [-0.02741885 -0.22150875  0.02206318  0.30093975]
638 {}
639 [-0.03184903 -0.02670811  0.02808197  0.01529594]
640 {}
641 [-0.03238319  0.16800009  0.02838789 -0.2683962 ]
642 {}
643 [-0.02902319  0.36270566  0.02301996 -0.55199195]
```

```
644 []
645 [-0.02176907 0.55749688 0.01198013 -0.83733409]
646 []
647 [-0.01061914 0.75245318 -0.00476656 -1.12622549]
648 []
649 [ 0.00442993 0.94763726 -0.02729107 -1.42039965]
650 []
651 [ 0.02338267 1.14308606 -0.05569906 -1.72148625]
652 []
653 [ 0.04624439 0.9486444 -0.09012878 -1.44664312]
654 []
655 [ 0.06521728 1.14475192 -0.11906165 -1.76607245]
656 []
657 [ 0.08811232 0.95115981 -0.1543831 -1.51266156]
658 []
659 [ 0.10713552 0.75820749 -0.18463633 -1.27188393]
660 []
661 [ 0.12229967 0.56585836 -0.21007401 -1.04223942]
662 []
663 Episode finished after 13 steps
664 [ 0.04979094 -0.16899276 0.03115802 0.33759323]
665 []
666 [0.04641108 0.02567227 0.03790988 0.05489639]
667 []
668 [ 0.04692453 0.22023072 0.03900781 -0.22558876]
669 []
670 [0.05132914 0.02457362 0.03449604 0.07913903]
671 []
672 [ 0.05182061 -0.17102543 0.03607882 0.38250287]
673 []
674 [0.04840011 0.02356617 0.04372888 0.10141029]
675 []
676 [ 0.04887143 -0.17215431 0.04575708 0.40756256]
677 []
```

```
678 [ 0.04542834 -0.36789419  0.05390833  0.71431295]
679 {}
680 [ 0.03807046 -0.56371935  0.06819459  1.02346535]
681 {}
682 [ 0.02679607 -0.3695687   0.0886639   0.75294997]
683 {}
684 [ 0.0194047  -0.17577387  0.1037229   0.48943263]
685 {}
686 [0.01588922 0.01774359 0.11351155 0.23115637]
687 {}
688 [ 0.01624409  0.21107598  0.11813468 -0.02367514]
689 {}
690 [ 0.02046561  0.40432307  0.11766117 -0.27687458]
691 {}
692 [ 0.02855207  0.59758703  0.11212368 -0.53025352]
693 {}
694 [ 0.04050381  0.4010812   0.10151861 -0.20445031]
695 {}
696 [0.04852544 0.20466505 0.09742961 0.11845225]
697 {}
698 [0.05261874 0.00829194 0.09979865 0.44021397]
699 {}
700 [ 0.05278458 -0.18809031  0.10860293  0.76261374]
701 {}
702 [0.04902277 0.00538152 0.12385521 0.50598229]
703 {}
704 [0.0491304  0.19856045 0.13397485 0.254754 ]
705 {}
706 [0.05310161 0.00180533 0.13906993 0.5865128 ]
707 {}
708 [0.05313772 0.19473369 0.15080019 0.34066915]
709 {}
710 [0.05703239 0.38742439 0.15761357 0.09908073]
711 {}
```

```
712 [0.06478088 0.19043589 0.15959519 0.43704763]
713 {}
714 [0.0685896 0.38298149 0.16833614 0.19862169]
715 {}
716 [0.07624923 0.18590194 0.17230857 0.53931983]
717 {}
718 [0.07996727 0.37823629 0.18309497 0.30549896]
719 {}
720 [0.08753199 0.18104169 0.18920495 0.64987633]
721 {}
722 [0.09115282 -0.01614158 0.20220247 0.99566781]
723 {}
724 [0.09082999 0.17578673 0.22211583 0.77268395]
725 {}
726 Episode finished after 31 steps
727 [0.02305169 -0.21233103 -0.03836019 0.23698481]
728 {}
729 [0.01880507 -0.01668263 -0.03362049 -0.06754702]
730 {}
731 [0.01847142 -0.21130684 -0.03497143 0.21434175]
732 {}
733 [0.01424528 -0.40591181 -0.0306846 0.49579123]
734 {}
735 [0.00612704 -0.60058793 -0.02076877 0.77864809]
736 {}
737 [-0.00588472 -0.40518666 -0.00519581 0.47950381]
738 {}
739 [-0.01398845 -0.60023488 0.00439426 0.77054463]
740 {}
741 [-0.02599315 -0.40517368 0.01980516 0.47924756]
742 {}
743 [-0.03409662 -0.21033684 0.02939011 0.19287196]
744 {}
745 [-0.03830336 -0.40586662 0.03324755 0.49467942]
```

```
746 []
747 [-0.04642069 -0.21122894  0.04314114  0.21265722]
748 []
749 [-0.05064527 -0.40694029  0.04739428  0.51863067]
750 []
751 [-0.05878407 -0.60269635  0.05776689  0.82586373]
752 []
753 [-0.070838  -0.79855873  0.07428417  1.13614127]
754 []
755 [-0.08680917 -0.60448296  0.09700699  0.86764991]
756 []
757 [-0.09889883 -0.80078155  0.11435999  1.18918879]
758 []
759 [-0.11491447 -0.60731232  0.13814377  0.93442916]
760 []
761 [-0.12706071 -0.41429695  0.15683235  0.68814951]
762 []
763 [-0.13534665 -0.22165921  0.17059534  0.44865919]
764 []
765 [-0.13977983 -0.41873161  0.17956853  0.7898888 ]
766 []
767 [-0.14815447 -0.22646997  0.1953663   0.55864335]
768 []
769 [-0.15268387 -0.03454921  0.20653917  0.33331168]
770 []
771 [-0.15337485 -0.23192013  0.2132054   0.68336755]
772 []
773 Episode finished after 23 steps
774 [-0.04513877 -0.15233574 -0.00436823  0.33366175]
775 []
776 [-0.04818548 -0.34739525  0.002305   0.62496396]
777 []
778 [-0.05513338 -0.15230555  0.01480428  0.33300786]
779 []
```

```
780 [-0.0581795 -0.34763505 0.02146444 0.63032231]
781 {}
782 [-0.0651322 -0.54304983 0.03407089 0.92968702]
783 {}
784 [-0.07599319 -0.7386147 0.05266463 1.23287898]
785 {}
786 [-0.09076549 -0.93437279 0.07732221 1.54158525]
787 {}
788 [-0.10945294 -1.13033459 0.10815391 1.85735976]
789 {}
790 [-0.13205964 -1.32646505 0.14530111 2.18157178]
791 {}
792 [-0.15858894 -1.13302217 0.18893254 1.93703348]
793 {}
794 [-0.18124938 -0.94035553 0.22767321 1.70839249]
795 {}
796 Episode finished after 11 steps
797 [-0.00601025 0.17524018 -0.04021743 -0.26799337]
798 {}
799 [-0.00250545 -0.01928542 -0.0455773 0.01173836]
800 {}
801 [-0.00289116 -0.21372511 -0.04534253 0.28969992]
802 {}
803 [-0.00716566 -0.40817215 -0.03954853 0.56774457]
804 {}
805 [-0.0153291 -0.21251842 -0.02819364 0.26286922]
806 {}
807 [-0.01957947 -0.40722683 -0.02293626 0.54652793]
808 {}
809 [-0.02772401 -0.21179026 -0.0120057 0.24670751]
810 {}
811 [-0.03195981 -0.4067387 -0.00707155 0.53557951]
812 {}
813 [-0.04009458 -0.60176051 0.00364004 0.82602589]
```

```
814 []
815 [-0.05212979 -0.79693205  0.02016056  1.11985143]
816 []
817 [-0.06806844 -0.60208028  0.04255759  0.83355998]
818 []
819 [-0.08011004 -0.79775708  0.05922879  1.13931757]
820 []
821 [-0.09606518 -0.9936013   0.08201514  1.44997186]
822 []
823 [-0.11593721 -0.79957754  0.11101458  1.18399993]
824 []
825 [-0.13192876 -0.60605693  0.13469458  0.9280772 ]
826 []
827 [-0.1440499  -0.41298533  0.15325612  0.68057353]
828 []
829 [-0.1523096  -0.22028664  0.16686759  0.43979448]
830 []
831 [-0.15671534 -0.0278707   0.17566348  0.20401131]
832 []
833 [-0.15727275 -0.22501276  0.17974371  0.54655348]
834 []
835 [-0.16177301 -0.42214421  0.19067478  0.8900474 ]
836 []
837 [-0.17021589 -0.2300494   0.20847572  0.66284662]
838 []
839 [-0.17481688 -0.42736814  0.22173266  1.01326492]
840 []
841 Episode finished after 22 steps
842 [ 0.02774839 -0.21858375 -0.04182654  0.29878609]
843 []
844 [ 0.02337671 -0.41308531 -0.03585082  0.57798984]
845 []
846 [ 0.01511501 -0.21747971 -0.02429102  0.2742321 ]
847 []
```

```
848 [ 0.01076541 -0.02201975 -0.01880638 -0.02601221]
849 {}
850 [ 0.01032502  0.17336678 -0.01932662 -0.32456892]
851 {}
852 [ 0.01379235 -0.02147473 -0.025818  -0.03804291]
853 {}
854 [ 0.01336286  0.17400776 -0.02657886 -0.33875857]
855 {}
856 [ 0.01684301 -0.02072611 -0.03335403 -0.05457421]
857 {}
858 [ 0.01642849  0.17485783 -0.03444551 -0.3575912 ]
859 {}
860 [ 0.01992565 -0.01975792 -0.04159734 -0.07596571]
861 {}
862 [ 0.01953049 -0.21425962 -0.04311665  0.20330836]
863 {}
864 [ 0.0152453  -0.40873928 -0.03905048  0.48208436]
865 {}
866 [ 0.00707051 -0.60328892 -0.0294088  0.76220841]
867 {}
868 [-0.00499527 -0.79799369 -0.01416463  1.04549435]
869 {}
870 [-0.02095514 -0.6026866  0.00674526  0.74839884]
871 {}
872 [-0.03300887 -0.79790095  0.02171324  1.04319679]
873 {}
874 [-0.04896689 -0.60307397  0.04257717  0.7574084 ]
875 {}
876 [-0.06102837 -0.79875604  0.05772534  1.0631794 ]
877 {}
878 [-0.07700349 -0.60444382  0.07898893  0.78915837]
879 {}
880 [-0.08909237 -0.41049039  0.09477209  0.52233397]
881 {}
```

```
882 [-0.09730217 -0.60680957 0.10521877 0.84331255]
883 {}
884 [-0.10943837 -0.41326883 0.12208502 0.58548425]
885 {}
886 [-0.11770374 -0.60987024 0.13379471 0.91399527]
887 {}
888 [-0.12990115 -0.80652341 0.15207462 1.24555714]
889 {}
890 [-0.14603162 -1.00323326 0.17698576 1.58175436]
891 {}
892 [-0.16609628 -1.1999648 0.20862085 1.92400449]
893 {}
894 [-0.19009558 -1.00760449 0.24710094 1.7026109 ]
895 {}
896 Episode finished after 27 steps
897 [ 0.0495725  0.20215378 -0.01251913 -0.34057243]
898 {}
899 [ 0.05361558  0.3974516 -0.01933058 -0.63717673]
900 {}
901 [ 0.06156461  0.20260448 -0.03207411 -0.35064349]
902 {}
903 [ 0.0656167  0.007953 -0.03908698 -0.06824462]
904 {}
905 [ 0.06577576 -0.1865874 -0.04045188  0.21185444]
906 {}
907 [ 0.06204401  0.00908887 -0.03621479 -0.09330946]
908 {}
909 [ 0.06222579  0.20471067 -0.03808098 -0.39719458]
910 {}
911 [ 0.06632   0.0101491 -0.04602487 -0.11675691]
912 {}
913 [ 0.06652299 -0.18428421 -0.04836001  0.16105768]
914 {}
915 [ 0.0628373 -0.37868167 -0.04513885  0.43810067]
```

```
916 []
917 [ 0.05526367 -0.57313663 -0.03637684  0.71621967]
918 []
919 [ 0.04380094 -0.76773671 -0.02205244  0.99723425]
920 []
921 [ 0.0284462 -0.96255696 -0.00210776  1.28291068]
922 []
923 [ 0.00919506 -1.157652  0.02355045  1.57493292]
924 []
925 [-0.01395798 -0.9628186  0.05504911  1.28968704]
926 []
927 [-0.03321435 -1.15859579  0.08084285  1.59908424]
928 []
929 [-0.05638627 -1.35457712  0.11282454  1.91583805]
930 []
931 [-0.08347781 -1.55071837  0.1511413   2.24127943]
932 []
933 [-0.11449218 -1.74691171  0.19596689  2.57648105]
934 []
935 [-0.14943041 -1.94296777  0.24749651  2.92218254]
936 []
937 Episode finished after 20 steps
938 [ 0.02995316 -0.23635595 -0.02227798  0.3222571 ]
939 []
940 [ 0.02522604 -0.43115369 -0.01583284  0.60783202]
941 []
942 [ 0.01660297 -0.62605075 -0.0036762   0.8954863 ]
943 []
944 [ 0.00408195 -0.82112266  0.01423353  1.18701139]
945 []
946 [-0.0123405 -1.01642625  0.03797375  1.48412162]
947 []
948 [-0.03266903 -0.82178732  0.06765619  1.2035353 ]
949 []
```

```
950 [-0.04910477 -0.6276021  0.09172689  0.93279961]
951 {}
952 [-0.06165681 -0.82383396  0.11038288  1.25283987]
953 {}
954 [-0.07813349 -1.0201831   0.13543968  1.57795782]
955 {}
956 [-0.09853716 -0.82690971  0.16699884  1.33040036]
957 {}
958 [-0.11507535 -0.63424098  0.19360685  1.09428761]
959 {}
960 [-0.12776017 -0.44212237  0.2154926   0.8680593 ]
961 {}
962 Episode finished after 12 steps
963 [-0.04786655  0.23814608 -0.03323298 -0.33726982]
964 {}
965 [-0.04310363  0.04351242 -0.03997837 -0.05524924]
966 {}
967 [-0.04223338  0.23918412 -0.04108336 -0.36027277]
968 {}
969 [-0.0374497   0.43486525 -0.04828881 -0.6656219 ]
970 {}
971 [-0.02875239  0.24044704 -0.06160125 -0.38852592]
972 {}
973 [-0.02394345  0.43638681 -0.06937177 -0.69997741]
974 {}
975 [-0.01521571  0.63239842 -0.08337132 -1.01366659]
976 {}
977 [-0.00256775  0.8285275  -0.10364465 -1.33132115]
978 {}
979 [ 0.0140028   0.63485413 -0.13027107 -1.07278706]
980 {}
981 [ 0.02669989  0.83143471 -0.15172681 -1.40335087]
982 {}
983 [ 0.04332858  0.63848763 -0.17979383 -1.16169196]
```

```
984 {}
985 [ 0.05609833 0.83543658 -0.20302767 -1.5049284 ]
986 {}
987 [ 0.07280707 1.03235954 -0.23312624 -1.85352671]
988 {}
989 Episode finished after 13 steps
990 [-0.00809066 -0.23679213 0.00048048 0.29700684]
991 {}
992 [-0.0128265 -0.04167703 0.00642061 0.00447548]
993 {}
994 [-0.01366004 0.15335226 0.00651012 -0.28617477]
995 {}
996 [-0.010593 0.34838076 0.00078663 -0.57679736]
997 {}
998 [-0.00362538 0.54349168 -0.01074932 -0.86923238]
999 {}
1000 [ 0.00724445 0.3485176 -0.02813397 -0.5799484 ]
1001 {}
1002 [ 0.0142148 0.54402227 -0.03973294 -0.88135965]
1003 {}
1004 [ 0.02509525 0.73966076 -0.05736013 -1.18626418]
1005 {}
1006 [ 0.03988846 0.54532766 -0.08108541 -0.91209858]
1007 {}
1008 [ 0.05079502 0.74144752 -0.09932738 -1.2291248 ]
1009 {}
1010 [ 0.06562397 0.93769726 -0.12390988 -1.55120271]
1011 {}
1012 [ 0.08437791 1.1340685 -0.15493393 -1.87983756]
1013 {}
1014 [ 0.10705928 1.33050275 -0.19253069 -2.21632809]
1015 {}
1016 [ 0.13366934 1.13767385 -0.23685725 -1.98868401]
1017 {}
```

```
1018 Episode finished after 14 steps
1019 [-0.00276275  0.23861395 -0.04382426 -0.33915915]
1020 {}
1021 [ 0.00200952  0.4343312 -0.05060744 -0.64533336]
1022 {}
1023 [ 0.01069615  0.63012048 -0.06351411 -0.95351353]
1024 {}
1025 [ 0.02329856  0.43590792 -0.08258438 -0.68144268]
1026 {}
1027 [ 0.03201672  0.63207383 -0.09621323 -0.99894092]
1028 {}
1029 [ 0.04465819  0.4383605 -0.11619205 -0.73795785]
1030 {}
1031 [ 0.0534254  0.2450185 -0.13095121 -0.48398397]
1032 {}
1033 [ 0.05832577  0.05196419 -0.14063089 -0.23527159]
1034 {}
1035 [ 0.05936506  0.24878599 -0.14533632 -0.56879901]
1036 {}
1037 [ 0.06434078  0.05596935 -0.1567123 -0.32520189]
1038 {}
1039 [ 0.06546016 -0.13661459 -0.16321634 -0.08575101]
1040 {}
1041 [ 0.06272787 -0.32906648 -0.16493136  0.1513174 ]
1042 {}
1043 [ 0.05614654 -0.13201417 -0.16190501 -0.18852023]
1044 {}
1045 [ 0.05350626 -0.32449415 -0.16567541  0.04903147]
1046 {}
1047 [ 0.04701638 -0.12743198 -0.16469478 -0.29100034]
1048 {}
1049 [ 0.04446774 -0.3198695 -0.17051479 -0.0544517 ]
1050 {}
1051 [ 0.03807035 -0.12276502 -0.17160382 -0.39570944]
```

```
1052 []
1053 [ 0.03561505  0.07432335 -0.17951801 -0.73720406]
1054 []
1055 [ 0.03710151  0.27141045 -0.19426209 -1.08057916]
1056 []
1057 [ 0.04252972  0.07930884 -0.21587368 -0.85460129]
1058 []
1059 Episode finished after 20 steps
1060 [ 0.00935165 -0.23736312 -0.00558789  0.31707684]
1061 []
1062 [ 0.00460438 -0.04216203  0.00075365  0.02263694]
1063 []
1064 [ 0.00376114  0.15294911  0.00120639 -0.26980811]
1065 []
1066 [ 0.00682013 -0.04219004 -0.00418977  0.02325508]
1067 []
1068 [ 0.00597633  0.15299175 -0.00372467 -0.27074682]
1069 []
1070 [ 0.00903616  0.34816665 -0.00913961 -0.56460219]
1071 []
1072 [ 0.01599949  0.15317412 -0.02043165 -0.27481262]
1073 []
1074 [ 0.01906298 -0.04165045 -0.0259279   0.01135675]
1075 []
1076 [ 0.01822997 -0.23639115 -0.02570077  0.29574767]
1077 []
1078 [ 0.01350214 -0.43113746 -0.01978581  0.58021547]
1079 []
1080 [ 0.00487939 -0.62597665 -0.0081815   0.8666004 ]
1081 []
1082 [-0.00764014 -0.43074432  0.0091505   0.57135637]
1083 []
1084 [-0.01625502 -0.23575187  0.02057763  0.28157015]
1085 []
```

```
1086 [-0.02097006 -0.04092939  0.02620903 -0.0045523 ]  
1087 {}  
1088 [-0.02178865 -0.23641722  0.02611799  0.29628332]  
1089 {}  
1090 [-0.02651699 -0.43190158  0.03204365  0.59708766]  
1091 {}  
1092 [-0.03515503 -0.62745694  0.04398541  0.89968934]  
1093 {}  
1094 [-0.04770417 -0.43295779  0.06197919  0.62115033]  
1095 {}  
1096 [-0.05636332 -0.23875363  0.0744022   0.34861365]  
1097 {}  
1098 [-0.06113839 -0.43485059  0.08137447  0.66379939]  
1099 {}  
1100 [-0.06983541 -0.24094932  0.09465046  0.39780764]  
1101 {}  
1102 [-0.07465439 -0.04728868  0.10260661  0.13640262]  
1103 {}  
1104 [-0.07560017  0.14622535  0.10533467 -0.12222833]  
1105 {}  
1106 [-0.07267566  0.33969284  0.1028901  -0.37990995]  
1107 {}  
1108 [-0.0658818   0.53321468  0.0952919  -0.63846119]  
1109 {}  
1110 [-0.05521751  0.33690224  0.08252268 -0.31735505]  
1111 {}  
1112 [-0.04847946  0.1407078   0.07617558  0.00016926]  
1113 {}  
1114 [-0.04566531 -0.05541929  0.07617896  0.31588071]  
1115 {}  
1116 [-0.04677369  0.13853958  0.08249658  0.04816116]  
1117 {}  
1118 [-0.0440029   0.33238764  0.0834598  -0.21739555]  
1119 {}
```

```
1120 [-0.03735515 0.52622349 0.07911189 -0.48262858]
1121 {}
1122 [-0.02683068 0.33007928 0.06945932 -0.16609785]
1123 {}
1124 [-0.02022909 0.13403535 0.06613736 0.14766359]
1125 {}
1126 [-0.01754839 0.32815092 0.06909063 -0.12344298]
1127 {}
1128 [-0.01098537 0.13211065 0.06662177 0.19021234]
1129 {}
1130 [-0.00834315 -0.06389802 0.07042602 0.50314542]
1131 {}
1132 [-0.00962112 -0.25993824 0.08048893 0.81716494]
1133 {}
1134 [-0.01481988 -0.45606439 0.09683223 1.13403994]
1135 {}
1136 [-0.02394117 -0.65231087 0.11951302 1.45545486]
1137 {}
1138 [-0.03698738 -0.45884146 0.14862212 1.20237408]
1139 {}
1140 [-0.04616421 -0.6555392 0.1726696 1.53770232]
1141 {}
1142 [-0.059275 -0.85226728 0.20342365 1.87891929]
1143 {}
1144 [-0.07632034 -0.65986168 0.24100204 1.65565673]
1145 {}
1146 Episode finished after 43 steps
1147 [ 0.01211818 0.23801119 -0.01894106 -0.24899542]
1148 {}
1149 [ 0.01687841 0.04316479 -0.02392097 0.03765342]
1150 {}
1151 [ 0.0177417 -0.15160611 -0.0231679 0.32269409]
1152 {}
1153 [ 0.01470958 0.04383796 -0.01671402 0.02279591]
```

```
1154 []
1155 [ 0.01558634 -0.15104036 -0.0162581  0.31015887]
1156 []
1157 [ 0.01256553  0.04430941 -0.01005492  0.01239327]
1158 []
1159 [ 0.01345172  0.23957411 -0.00980706 -0.28344507]
1160 []
1161 [ 0.0182432  0.43483455 -0.01547596 -0.57920489]
1162 []
1163 [ 0.02693989  0.23993287 -0.02706006 -0.29143711]
1164 []
1165 [ 0.03173855  0.04520699 -0.0328888 -0.00740993]
1166 []
1167 [ 0.03264269 -0.14942823 -0.033037  0.27471745]
1168 []
1169 [ 0.02965413 -0.34406362 -0.02754265  0.55680012]
1170 []
1171 [ 0.02277285 -0.53878829 -0.01640665  0.84067983]
1172 []
1173 [ 1.19970887e-02 -3.43446244e-01  4.06949402e-04  5.
     42882861e-01]
1174 []
1175 [ 0.00512816 -0.14833001  0.01126461  0.25032818]
1176 []
1177 [ 0.00216156  0.04662928  0.01627117 -0.03878048]
1178 []
1179 [ 0.00309415  0.24151417  0.01549556 -0.3262856 ]
1180 []
1181 [ 0.00792443  0.43641211  0.00896985 -0.61404191]
1182 []
1183 [ 0.01665267  0.24116597 -0.00331099 -0.31854738]
1184 []
1185 [ 0.02147599  0.43633493 -0.00968194 -0.61227263]
1186 []
```

```
1187 [ 0.03020269 0.24134961 -0.02192739 -0.32265482]
1188 {}
1189 [ 0.03502968 0.04654666 -0.02838049 -0.03696677]
1190 {}
1191 [ 0.03596062 -0.14815706 -0.02911982 0.24662845]
1192 {}
1193 [ 0.03299748 0.04736842 -0.02418725 -0.05509544]
1194 {}
1195 [ 0.03394485 0.24282868 -0.02528916 -0.35531043]
1196 {}
1197 [ 0.03880142 0.4383009 -0.03239537 -0.65585923]
1198 {}
1199 [ 0.04756744 0.24364457 -0.04551255 -0.37355051]
1200 {}
1201 [ 0.05244033 0.4393825 -0.05298356 -0.68022944]
1202 {}
1203 [ 0.06122798 0.6351988 -0.06658815 -0.98911158]
1204 {}
1205 [ 0.07393195 0.44102839 -0.08637039 -0.7180639 ]
1206 {}
1207 [ 0.08275252 0.24720111 -0.10073166 -0.45376808]
1208 {}
1209 [ 0.08769654 0.05363707 -0.10980702 -0.19445888]
1210 {}
1211 [ 0.08876929 0.25014447 -0.1136962 -0.51966313]
1212 {}
1213 [ 0.09377218 0.05679128 -0.12408946 -0.26486063]
1214 {}
1215 [ 0.094908 0.25344574 -0.12938668 -0.59396288]
1216 {}
1217 [ 0.09997692 0.45011866 -0.14126594 -0.92443998]
1218 {}
1219 [ 0.10897929 0.646837 -0.15975473 -1.25797227]
1220 {}
```

```
1221 [ 0.12191603 0.84360136 -0.18491418 -1.59612887]
1222 {}
1223 [ 0.13878806 0.6510905 -0.21683676 -1.36634095]
1224 {}
1225 Episode finished after 39 steps
1226 [-0.00399 -0.2304877 0.04492166 0.33157441]
1227 {}
1228 [-0.00859976 -0.42621933 0.05155315 0.6380782 ]
1229 {}
1230 [-0.01712414 -0.23185271 0.06431471 0.36206553]
1231 {}
1232 [-0.0217612 -0.03770104 0.07155602 0.09033563]
1233 {}
1234 [-0.02251522 -0.23377181 0.07336274 0.40470868]
1235 {}
1236 [-0.02719065 -0.03976277 0.08145691 0.1360272 ]
1237 {}
1238 [-0.02798591 0.15410368 0.08417745 -0.1298864 ]
1239 {}
1240 [-0.02490384 -0.04211692 0.08157973 0.18812129]
1241 {}
1242 [-0.02574618 -0.23830552 0.08534215 0.50538331]
1243 {}
1244 [-0.03051229 -0.04448337 0.09544982 0.24076833]
1245 {}
1246 [-0.03140195 -0.24083003 0.10026518 0.56196736]
1247 {}
1248 [-0.03621855 -0.04724749 0.11150453 0.3024805 ]
1249 {}
1250 [-0.0371635 0.14612329 0.11755414 0.04694009]
1251 {}
1252 [-0.03424104 -0.05047095 0.11849294 0.37427761]
1253 {}
1254 [-0.03525046 0.14278604 0.1259785 0.12118029]
```

```
1255 []
1256 [-0.03239474 -0.05389458 0.1284021 0.45080302]
1257 []
1258 [-0.03347263 0.13919979 0.13741816 0.20119243]
1259 []
1260 [-0.03068863 -0.0575926 0.14144201 0.53387218]
1261 []
1262 [-0.03184048 0.13528654 0.15211945 0.28888811]
1263 []
1264 [-0.02913475 0.32794901 0.15789722 0.0477825 ]
1265 []
1266 [-0.02257577 0.52049594 0.15885287 -0.19121587]
1267 []
1268 [-0.01216585 0.32350027 0.15502855 0.14706377]
1269 []
1270 [-0.00569585 0.51610159 0.15796982 -0.09297741]
1271 []
1272 [0.00462618 0.31910966 0.15611028 0.24508148]
1273 []
1274 [0.01100838 0.12214256 0.1610119 0.58264954]
1275 []
1276 [ 0.01345123 -0.07482532 0.1726649 0.92141308]
1277 []
1278 [ 0.01195472 -0.27180685 0.19109316 1.26300345]
1279 []
1280 [ 0.00651858 -0.4687876 0.21635323 1.60893625]
1281 []
1282 Episode finished after 28 steps
1283 [ 0.00658124 0.22791644 -0.0094535 -0.31278568]
1284 []
1285 [ 0.01113957 0.03293043 -0.01570922 -0.02309903]
1286 []
1287 [ 0.01179817 -0.16196275 -0.0161712 0.26458636]
1288 []
```

```
1289 [ 0.00855892 -0.3568502 -0.01087947 0.55212519]
1290 {}
1291 [ 1.42191537e-03 -1.61577163e-01 1.63032236e-04 2.
      56034459e-01]
1292 {}
1293 [-0.00180963 -0.35670144 0.00528372 0.5487688 ]
1294 {}
1295 [-0.00894366 -0.16165411 0.0162591 0.2577553 ]
1296 {}
1297 [-0.01217674 -0.35700437 0.0214142 0.55552192]
1298 {}
1299 [-0.01931683 -0.55242033 0.03252464 0.85487396]
1300 {}
1301 [-0.03036523 -0.35775638 0.04962212 0.57259302]
1302 {}
1303 [-0.03752036 -0.16336405 0.06107398 0.29594635]
1304 {}
1305 [-0.04078764 -0.35930109 0.06699291 0.60724853]
1306 {}
1307 [-0.04797366 -0.16517661 0.07913788 0.33639619]
1308 {}
1309 [-0.0512772 0.02873517 0.0858658 0.06968112]
1310 {}
1311 [-0.05070249 -0.16750616 0.08725943 0.38817217]
1312 {}
1313 [-0.05405262 -0.36375133 0.09502287 0.70704167]
1314 {}
1315 [-0.06132764 -0.17006526 0.1091637 0.44571793]
1316 {}
1317 [-0.06472895 -0.36654861 0.11807806 0.77071904]
1318 {}
1319 [-0.07205992 -0.56308044 0.13349244 1.09809841]
1320 {}
1321 [-0.08332153 -0.36994407 0.15545441 0.85010164]
```

```
1322 {}
1323 [-0.09072041 -0.56680525 0.17245644 1.18735232]
1324 {}
1325 [-0.10205651 -0.37428662 0.19620349 0.95330929]
1326 {}
1327 [-0.10954225 -0.18226798 0.21526967 0.72812194]
1328 {}
1329 Episode finished after 23 steps
1330 [-0.01764214 -0.17330002 -0.01399986 0.33391445]
1331 {}
1332 [-0.02110814 -0.36821995 -0.00732157 0.62214986]
1333 {}
1334 [-0.02847254 -0.17299653 0.00512143 0.32717006]
1335 {}
1336 [-0.03193247 -0.36819102 0.01166483 0.62146365]
1337 {}
1338 [-0.03929629 -0.56347391 0.0240941 0.91779743]
1339 {}
1340 [-0.05056576 -0.36868584 0.04245005 0.63278312]
1341 {}
1342 [-0.05793948 -0.17418101 0.05510571 0.35376527]
1343 {}
1344 [-0.0614231 -0.37004146 0.06218102 0.66330287]
1345 {}
1346 [-0.06882393 -0.56597085 0.07544708 0.97489841]
1347 {}
1348 [-0.08014335 -0.76201932 0.09494505 1.29029496]
1349 {}
1350 [-0.09538373 -0.95821175 0.12075095 1.61113009]
1351 {}
1352 [-0.11454797 -1.15453518 0.15297355 1.93888548]
1353 {}
1354 [-0.13763867 -1.35092441 0.19175126 2.27482831]
1355 {}
```

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1356 [-0.16465716 -1.158036  0.23724782  2.04682861]
1357 {}
1358 Episode finished after 14 steps
1359 [-0.01037123 -0.1723668 -0.0194895  0.31411239]
1360 {}
1361 [-0.01381857  0.02302728 -0.01320725  0.01534738]
1362 {}
1363 [-0.01335802 -0.1719028 -0.01290031  0.30383417]
1364 {}
1365 [-0.01679608 -0.36683855 -0.00682362  0.59242088]
1366 {}
1367 [-0.02413285 -0.17162174  0.0050248  0.29759636]
1368 {}
1369 [-0.02756528 -0.36681496  0.01097672  0.59185977]
1370 {}
1371 [-0.03490158 -0.56208885  0.02281392  0.88798005]
1372 {}
1373 [-0.04614336 -0.36728384  0.04057352  0.60255529]
1374 {}
1375 [-0.05348904 -0.56294911  0.05262462  0.90773699]
1376 {}
1377 [-0.06474802 -0.75874246  0.07077936  1.21648494]
1378 {}
1379 [-0.07992287 -0.95470229  0.09510906  1.53048048]
1380 {}
1381 [-0.09901691 -0.76084703  0.12571867  1.26893171]
1382 {}
1383 [-0.11423385 -0.95733003  0.15109731  1.59819418]
1384 {}
1385 [-0.13338045 -1.15388516  0.18306119  1.93392147]
1386 {}
1387 [-0.15645816 -0.96113346  0.22173962  1.70314484]
1388 {}
1389 Episode finished after 15 steps
```

```
1390 [-0.03236703 -0.20700222 -0.01673138 0.2678581 ]  
1391 {}  
1392 [-0.03650708 -0.40188145 -0.01137422 0.55521722]  
1393 {}  
1394 [-4.45447047e-02 -5.96841863e-01 -2.69877263e-04 8.  
     44294983e-01]  
1395 {}  
1396 [-0.05648154 -0.79196013 0.01661602 1.13689303]  
1397 {}  
1398 [-0.07232074 -0.59705942 0.03935388 0.8494672 ]  
1399 {}  
1400 [-0.08426193 -0.40249562 0.05634323 0.56941452]  
1401 {}  
1402 [-0.09231185 -0.20820727 0.06773152 0.29500061]  
1403 {}  
1404 [-0.09647599 -0.40422618 0.07363153 0.60825264]  
1405 {}  
1406 [-0.10456051 -0.21020667 0.08579658 0.33964006]  
1407 {}  
1408 [-0.10876465 -0.01640363 0.09258938 0.07519804]  
1409 {}  
1410 [-0.10909272 0.1772774 0.09409334 -0.18689669]  
1411 {}  
1412 [-0.10554717 -0.01905602 0.09035541 0.13392335]  
1413 {}  
1414 [-0.10592829 -0.21534824 0.09303388 0.45368895]  
1415 {}  
1416 [-0.11023526 -0.41165413 0.10210766 0.7741869 ]  
1417 {}  
1418 [-0.11846834 -0.21807395 0.11759139 0.51529654]  
1419 {}  
1420 [-0.12282982 -0.0247872 0.12789733 0.26186089]  
1421 {}  
1422 [-0.12332556 -0.22148078 0.13313454 0.59199083]
```

```
1423 []
1424 [-0.12775518 -0.02844918 0.14497436 0.34403176]
1425 []
1426 [-0.12832416 -0.22530396 0.151855 0.67868962]
1427 []
1428 [-0.13283024 -0.42217279 0.16542879 1.01506855]
1429 []
1430 [-0.1412737 -0.61906796 0.18573016 1.35479377]
1431 []
1432 [-0.15365506 -0.81597074 0.21282603 1.6993596 ]
1433 []
1434 Episode finished after 22 steps
1435 [ 0.00771731 0.19317147 0.0126049 -0.30181199]
1436 []
1437 [ 0.01158074 0.38811153 0.00656866 -0.5904931 ]
1438 []
1439 [ 0.01934297 0.19289822 -0.00524121 -0.29574829]
1440 []
1441 [ 0.02320094 0.3880945 -0.01115617 -0.59007959]
1442 []
1443 [ 0.03096283 0.58337087 -0.02295776 -0.88625576]
1444 []
1445 [ 0.04263025 0.38856797 -0.04068288 -0.60087741]
1446 []
1447 [ 0.0504016 0.58423472 -0.05270043 -0.90609215]
1448 []
1449 [ 0.0620863 0.78002913 -0.07082227 -1.21486277]
1450 []
1451 [ 0.07768688 0.97598969 -0.09511953 -1.52887109]
1452 []
1453 [ 0.09720668 1.17212154 -0.12569695 -1.84966195]
1454 []
1455 [ 0.12064911 0.97858746 -0.16269019 -1.59850881]
1456 []
```

```
1457 [ 0.14022086 1.17522042 -0.19466036 -1.93718367]
1458 {}
1459 [ 0.16372526 1.37181766 -0.23340404 -2.28337936]
1460 {}
1461 Episode finished after 13 steps
1462 [ 0.04626245 0.1557333 -0.00719331 -0.28305437]
1463 {}
1464 [ 0.04937712 -0.03928531 -0.0128544  0.00735117]
1465 {}
1466 [ 0.04859141 0.15601861 -0.01270737 -0.2893596 ]
1467 {}
1468 [ 0.05171178 0.35131944 -0.01849457 -0.58602305]
1469 {}
1470 [ 0.05873817 0.54669548 -0.03021503 -0.88447409]
1471 {}
1472 [ 0.06967208 0.35199654 -0.04790451 -0.60144085]
1473 {}
1474 [ 0.07671201 0.54775472 -0.05993333 -0.90881979]
1475 {}
1476 [ 0.08766711 0.74363445 -0.07810972 -1.21972171]
1477 {}
1478 [ 0.1025398 0.54960135 -0.10250416 -0.95250038]
1479 {}
1480 [ 0.11353182 0.74594209 -0.12155416 -1.27554909]
1481 {}
1482 [ 0.12845067 0.55256185 -0.14706514 -1.02326803]
1483 {}
1484 [ 0.1395019 0.35967212 -0.16753051 -0.78013815]
1485 {}
1486 [ 0.14669535 0.55665223 -0.18313327 -1.1204955 ]
1487 {}
1488 [ 0.15782839 0.75364116 -0.20554318 -1.46457853]
1489 {}
1490 [ 0.17290121 0.56154308 -0.23483475 -1.24250192]
```

```
1491 {}
1492 Episode finished after 15 steps
1493 [-0.04029929  0.16948396 -0.03274535 -0.34578495]
1494 {}
1495 [-0.03690961 -0.02515726 -0.03966105 -0.06360504]
1496 {}
1497 [-0.03741275  0.17051022 -0.04093315 -0.36853276]
1498 {}
1499 [-0.03400255 -0.02400693 -0.0483038 -0.08903242]
1500 {}
1501 [-0.03448269 -0.21840442 -0.05008445  0.18802791]
1502 {}
1503 [-0.03885078 -0.02260302 -0.04632389 -0.12002457]
1504 {}
1505 [-0.03930284  0.17315096 -0.04872438 -0.42695491]
1506 {}
1507 [-0.03583982 -0.02124823 -0.05726348 -0.15002149]
1508 {}
1509 [-0.03626478  0.17464496 -0.06026391 -0.46020591]
1510 {}
1511 [-0.03277188 -0.0195757 -0.06946803 -0.18711064]
1512 {}
1513 [-0.0331634  0.17646783 -0.07321024 -0.50087386]
1514 {}
1515 [-0.02963404  0.37254132 -0.08322772 -0.81570085]
1516 {}
1517 [-0.02218321  0.17865155 -0.09954174 -0.55031361]
1518 {}
1519 [-0.01861018  0.3750204 -0.11054801 -0.87262576]
1520 {}
1521 [-0.01110977  0.18156132 -0.12800052 -0.61664346]
1522 {}
1523 [-0.00747855 -0.011562 -0.14033339 -0.36685784]
1524 {}
```

```
1525 [-0.00770979 -0.20443993 -0.14767055 -0.12150783]
1526 {}
1527 [-0.01179859 -0.39717155 -0.15010071  0.12118569]
1528 {}
1529 [-0.01974202 -0.20025347 -0.14767699 -0.21483431]
1530 {}
1531 [-0.02374709 -0.39298947 -0.15197368  0.02786356]
1532 {}
1533 [-0.03160688 -0.19605177 -0.15141641 -0.30864667]
1534 {}
1535 [-0.03552791 -0.38872848 -0.15758934 -0.06728491]
1536 {}
1537 [-0.04330248 -0.1917394 -0.15893504 -0.40524677]
1538 {}
1539 [-0.04713727  0.00523734 -0.16703998 -0.74351839]
1540 {}
1541 [-0.04703252 -0.18723368 -0.18191034 -0.50771198]
1542 {}
1543 [-0.0507772 -0.37938928 -0.19206458 -0.27742163]
1544 {}
1545 [-0.05836498 -0.57132659 -0.19761302 -0.05093008]
1546 {}
1547 [-0.06979151 -0.76314718 -0.19863162  0.17348015]
1548 {}
1549 [-0.08505446 -0.56581891 -0.19516201 -0.17470675]
1550 {}
1551 [-0.09637083 -0.36851727 -0.19865615 -0.52205501]
1552 {}
1553 [-0.10374118 -0.17123537 -0.20909725 -0.87017937]
1554 {}
1555 [-0.10716589 -0.36299398 -0.22650084 -0.64983419]
1556 {}
1557 Episode finished after 32 steps
1558 [ 0.00954491 -0.18603582 -0.00663666  0.26377474]
```

```
1559 []
1560 [ 0.00582419 -0.38106242 -0.00136116  0.55435702]
1561 []
1562 [-0.00179706 -0.18592138  0.00972598  0.26124556]
1563 []
1564 [-0.00551548 -0.38118081  0.01495089  0.55698024]
1565 []
1566 [-0.0131391 -0.57650943  0.02609049  0.85433582]
1567 []
1568 [-0.02466929 -0.77197707  0.04317721  1.15510724]
1569 []
1570 [-0.04010883 -0.96763462  0.06627936  1.46101019]
1571 []
1572 [-0.05946152 -0.77338485  0.09549956  1.18974716]
1573 []
1574 [-0.07492922 -0.57962142  0.1192945  0.92846059]
1575 []
1576 [-0.08652165 -0.38629441  0.13786371  0.67552054]
1577 []
1578 [-0.09424754 -0.19333015  0.15137413  0.42922412]
1579 []
1580 [-0.09811414 -0.00063962  0.15995861  0.18782774]
1581 []
1582 [-0.09812693 -0.1976455  0.16371516  0.52639159]
1583 []
1584 [-0.10207984 -0.39464666  0.17424299  0.86585959]
1585 []
1586 [-0.10997278 -0.2022696  0.19156019  0.63263205]
1587 []
1588 [-0.11401817 -0.39947469  0.20421283  0.97900378]
1589 []
1590 [-0.12200766 -0.20758851  0.2237929  0.75677748]
1591 []
1592 Episode finished after 17 steps
```

```
1593 [-0.02632088 0.14698219 0.01343377 -0.25031931]
1594 {}
1595 [-0.02338124 -0.048329 0.00842738 0.04657044]
1596 {}
1597 [-0.02434782 0.1466711 0.00935879 -0.2434417 ]
1598 {}
1599 [-0.02141439 -0.04858327 0.00448995 0.05217847]
1600 {}
1601 [-0.02238606 0.14647402 0.00553352 -0.23908446]
1602 {}
1603 [-0.01945658 -0.04872655 0.00075183 0.05533875]
1604 {}
1605 [-0.02043111 0.14638462 0.00185861 -0.23710688]
1606 {}
1607 [-0.01750342 0.34147997 -0.00288353 -0.52920296]
1608 {}
1609 [-0.01067382 0.53664236 -0.01346759 -0.8227931 ]
1610 {}
1611 [ 5.90296302e-05 7.31945950e-01 -2.99234501e-02 -1.
11968126e+00]
1612 {}
1613 [ 0.01469795 0.53722905 -0.05231708 -0.83653285]
1614 {}
1615 [ 0.02544253 0.73302506 -0.06904773 -1.14519922]
1616 {}
1617 [ 0.04010303 0.92897758 -0.09195172 -1.45871153]
1618 {}
1619 [ 0.05868258 0.73509593 -0.12112595 -1.19611338]
1620 {}
1621 [ 0.0733845 0.93155953 -0.14504822 -1.52417362]
1622 {}
1623 [ 0.09201569 0.73845633 -0.17553169 -1.2800553 ]
1624 {}
1625 [ 0.10678482 0.9353258 -0.20113279 -1.62216354]
```

```
1626 {}
1627 [ 0.12549133 1.13216739 -0.23357606 -1.97020885]
1628 {}
1629 Episode finished after 18 steps
1630 [-0.01211889 -0.1884516 -0.04440466 0.22873273]
1631 {}
1632 [-0.01588792 0.00727585 -0.03983001 -0.07761974]
1633 {}
1634 [-0.0157424 -0.18725315 -0.0413824 0.20223541]
1635 {}
1636 [-0.01948746 0.00843545 -0.0373377 -0.10320914]
1637 {}
1638 [-0.01931876 0.20407205 -0.03940188 -0.40743424]
1639 {}
1640 [-0.01523731 0.0095303 -0.04755056 -0.12742927]
1641 {}
1642 [-0.01504671 0.20530005 -0.05009915 -0.43472657]
1643 {}
1644 [-0.01094071 0.40109414 -0.05879368 -0.74277219]
1645 {}
1646 [-0.00291883 0.59697622 -0.07364912 -1.05336301]
1647 {}
1648 [ 0.0090207 0.40290392 -0.09471638 -0.784677 ]
1649 {}
1650 [ 0.01707878 0.20920219 -0.11040992 -0.52323173]
1651 {}
1652 [ 0.02126282 0.01579323 -0.12087456 -0.26727939]
1653 {}
1654 [ 0.02157869 -0.17741489 -0.12622015 -0.01503245]
1655 {}
1656 [ 0.01803039 0.01926998 -0.12652079 -0.34472303]
1657 {}
1658 [ 0.01841579 0.21594336 -0.13341526 -0.67447301]
1659 {}
```

```
1660 [ 0.02273466 0.02290305 -0.14690472 -0.42659359]
1661 {}
1662 [ 0.02319272 0.21976702 -0.15543659 -0.76174369]
1663 {}
1664 [ 0.02758806 0.41664953 -0.17067146 -1.0990216 ]
1665 {}
1666 [ 0.03592105 0.61355614 -0.19265189 -1.44002437]
1667 {}
1668 [ 0.04819217 0.42125769 -0.22145238 -1.21320295]
1669 {}
1670 Episode finished after 20 steps
1671 [ 0.02001653 0.16607488 -0.03882647 -0.33702422]
1672 {}
1673 [ 0.02333803 0.36172723 -0.04556695 -0.64169367]
1674 {}
1675 [ 0.03057257 0.55745376 -0.05840083 -0.94837077]
1676 {}
1677 [ 0.04172165 0.75331132 -0.07736824 -1.25881634]
1678 {}
1679 [ 0.05678788 0.55925986 -0.10254457 -0.99133345]
1680 {}
1681 [ 0.06797307 0.75559348 -0.12237124 -1.31438215]
1682 {}
1683 [ 0.08308494 0.95203304 -0.14865888 -1.64272544]
1684 {}
1685 [ 0.1021256 1.14855032 -0.18151339 -1.97779507]
1686 {}
1687 [ 0.12509661 1.34506117 -0.22106929 -2.3207912 ]
1688 {}
1689 Episode finished after 9 steps
1690 [ 0.03290135 0.22945456 -0.04366074 -0.33412512]
1691 {}
1692 [ 0.03749044 0.03498033 -0.05034324 -0.05552394]
1693 {}
```

```
1694 [ 0.03819005 -0.15938498 -0.05145372  0.22085998]
1695 {}
1696 [ 0.03500235  0.03643324 -0.04703652 -0.08759934]
1697 {}
1698 [ 0.03573102  0.23219675 -0.04878851 -0.39474346]
1699 {}
1700 [ 0.04037495  0.4279758  -0.05668338 -0.70240074]
1701 {}
1702 [ 0.04893447  0.62383567 -0.07073139 -1.01237468]
1703 {}
1704 [ 0.06141118  0.42972501 -0.09097889 -0.74271441]
1705 {}
1706 [ 0.07000568  0.62597711 -0.10583318 -1.06258602]
1707 {}
1708 [ 0.08252522  0.82232887 -0.1270849  -1.38652264]
1709 {}
1710 [ 0.0989718   1.01878522 -0.15481535 -1.71609317]
1711 {}
1712 [ 0.1193475   0.82574106 -0.18913721 -1.47532425]
1713 {}
1714 [ 0.13586233  1.02260287 -0.2186437  -1.82062635]
1715 {}
1716 Episode finished after 13 steps
1717 [-0.03901868  0.20268372  0.04221744 -0.27772021]
1718 {}
1719 [-0.03496501  0.00698571  0.03666304  0.02797349]
1720 {}
1721 [-0.03482529  0.20156323  0.03722251 -0.25292013]
1722 {}
1723 [-0.03079403  0.39613445  0.03216411 -0.53363391]
1724 {}
1725 [-0.02287134  0.59078965  0.02149143 -0.81601107]
1726 {}
1727 [-0.01105555  0.39538014  0.00517121 -0.51664649]
```

```
1728 {}
1729 [-0.00314794 0.20018575 -0.00516172 -0.22233851]
1730 {}
1731 [ 0.00085577 0.3953811 -0.00960849 -0.51664517]
1732 {}
1733 [ 0.00876339 0.20039576 -0.0199414 -0.2270055 ]
1734 {}
1735 [ 0.01277131 0.00556438 -0.02448151 0.05932107]
1736 {}
1737 [ 0.0128826 -0.18919815 -0.02329508 0.34418048]
1738 {}
1739 [ 0.00909863 0.00624731 -0.01641148 0.04424369]
1740 {}
1741 [ 0.00922358 -0.18863551 -0.0155266 0.3317038 ]
1742 {}
1743 [ 0.00545087 -0.38353305 -0.00889253 0.61945024]
1744 {}
1745 [-0.00221979 -0.18828803 0.00349648 0.32397992]
1746 {}
1747 [-0.00598555 0.00678396 0.00997608 0.03240169]
1748 {}
1749 [-0.00584987 -0.18847962 0.01062411 0.3282154 ]
1750 {}
1751 [-0.00961947 -0.3837512 0.01718842 0.62422967]
1752 {}
1753 [-0.01729449 -0.57910885 0.02967301 0.92227601]
1754 {}
1755 [-0.02887667 -0.38440013 0.04811853 0.63906407]
1756 {}
1757 [-0.03656467 -0.5801588 0.06089981 0.94650359]
1758 {}
1759 [-0.04816785 -0.38590754 0.07982989 0.67356034]
1760 {}
1761 [-0.055886 -0.58204295 0.09330109 0.99027157]
```

```
1762 []
1763 [-0.06752686 -0.77828145 0.11310653 1.31073979]
1764 []
1765 [-0.08309248 -0.97463951 0.13932132 1.63657734]
1766 []
1767 [-0.10258527 -1.17109369 0.17205287 1.96923136]
1768 []
1769 [-0.12600715 -0.97815689 0.21143749 1.73443348]
1770 []
1771 Episode finished after 27 steps
1772 [ 0.00430378 0.20083081 0.03460615 -0.3105256 ]
1773 []
1774 [ 0.0083204 0.39544307 0.02839564 -0.59209702]
1775 []
1776 [ 0.01622926 0.19993534 0.0165537 -0.29060646]
1777 []
1778 [0.02022796 0.00458131 0.01074157 0.00725101]
1779 []
1780 [ 0.02031959 -0.19069303 0.01088659 0.30330358]
1781 []
1782 [ 0.01650573 -0.38596843 0.01695266 0.59939991]
1783 []
1784 [ 0.00878636 -0.58132341 0.02894066 0.89737412]
1785 []
1786 [-0.00284011 -0.77682547 0.04688814 1.19901178]
1787 []
1788 [-0.01837662 -0.5823405 0.07086838 0.92138501]
1789 []
1790 [-0.03002343 -0.77834485 0.08929608 1.23547141]
1791 []
1792 [-0.04559032 -0.9744937 0.11400551 1.55474061]
1793 []
1794 [-0.0650802 -0.78090766 0.14510032 1.29969163]
1795 []
```

```
1796 [-0.08069835 -0.97754239 0.17109415 1.63405414]
1797 {}
1798 [-0.1002492 -0.78479189 0.20377523 1.39920652]
1799 {}
1800 [-0.11594504 -0.98177923 0.23175936 1.74807007]
1801 {}
1802 Episode finished after 15 steps
1803 [ 0.03576256 0.23788474 -0.04930783 -0.35573418]
1804 {}
1805 [ 0.04052026 0.43367181 -0.05642251 -0.66354847]
1806 {}
1807 [ 0.04919369 0.23937831 -0.06969348 -0.38915142]
1808 {}
1809 [ 0.05398126 0.0453112 -0.07747651 -0.11923074]
1810 {}
1811 [ 0.05488748 0.24145279 -0.07986113 -0.43531585]
1812 {}
1813 [ 0.05971654 0.43760911 -0.08856744 -0.75206676]
1814 {}
1815 [ 0.06846872 0.24381284 -0.10360878 -0.48851656]
1816 {}
1817 [ 0.07334498 0.05029356 -0.11337911 -0.23020079]
1818 {}
1819 [ 0.07435085 -0.14304104 -0.11798313 0.02467706]
1820 {}
1821 [ 0.07149003 0.05355792 -0.11748958 -0.30277788]
1822 {}
1823 [ 0.07256119 -0.1397107 -0.12354514 -0.04933606]
1824 {}
1825 [ 0.06976697 0.05694629 -0.12453186 -0.3783031 ]
1826 {}
1827 [ 0.0709059 0.25359646 -0.13209793 -0.70751186]
1828 {}
1829 [ 0.07597783 0.06052778 -0.14624816 -0.45915588]
```

```
1830 []
1831 [ 0.07718838 0.25738151 -0.15543128 -0.79412813]
1832 []
1833 [ 0.08233601 0.45425637 -0.17131384 -1.13139341]
1834 []
1835 [ 0.09142114 0.26174001 -0.19394171 -0.89696633]
1836 []
1837 [ 0.09665594 0.0697009 -0.21188104 -0.67097023]
1838 []
1839 Episode finished after 18 steps
1840 [ 0.02319943 0.14563965 0.03603454 -0.30882902]
1841 []
1842 [ 0.02611223 0.34023013 0.02985796 -0.58993339]
1843 []
1844 [ 0.03291683 0.14470312 0.0180593 -0.28799666]
1845 []
1846 [ 0.03581089 -0.05067165 0.01229936 0.01032685]
1847 []
1848 [ 0.03479746 0.14427177 0.0125059 -0.27845024]
1849 []
1850 [ 0.03768289 0.3392131 0.00693689 -0.56716273]
1851 []
1852 [ 0.04446716 0.14399453 -0.00440636 -0.2723025 ]
1853 []
1854 [ 0.04734705 -0.05106427 -0.00985241 0.0189874 ]
1855 []
1856 [ 0.04632576 -0.24604355 -0.00947266 0.30854556]
1857 []
1858 [ 0.04140489 -0.44102925 -0.00330175 0.59822608]
1859 []
1860 [ 0.0325843 -0.24586126 0.00866277 0.30450497]
1861 []
1862 [ 0.02766708 -0.44110559 0.01475287 0.59990729]
1863 []
```

```
1864 [ 0.01884497 -0.24619311  0.02675102  0.31190758]
1865 {}
1866 [ 0.01392111 -0.44168575  0.03298917  0.61290549]
1867 {}
1868 [ 0.00508739 -0.24703998  0.04524728  0.33079274]
1869 {}
1870 [ 1.46590932e-04 -4.42775823e-01  5.18631317e-02  6.
      37394171e-01]
1871 {}
1872 [-0.00870893 -0.248414   0.06461102  0.36148437]
1873 {}
1874 [-0.01367721 -0.44439198  0.0718407   0.67382039]
1875 {}
1876 [-0.02256505 -0.25033815  0.08531711  0.40459347]
1877 {}
1878 [-0.02757181 -0.44655988  0.09340898  0.7229083 ]
1879 {}
1880 [-0.03650301 -0.64284117  0.10786715  1.04346904]
1881 {}
1882 [-0.04935983 -0.44930399  0.12873653  0.78650201]
1883 {}
1884 [-0.05834591 -0.64593727  0.14446657  1.11675526]
1885 {}
1886 [-0.07126465 -0.45297594  0.16680167  0.87265401]
1887 {}
1888 [-0.08032417 -0.26046698  0.18425475  0.63671098]
1889 {}
1890 [-0.08553351 -0.06832757  0.19698897  0.40724526]
1891 {}
1892 [-0.08690006  0.1235357   0.20513388  0.18255714]
1893 {}
1894 [-0.08442935 -0.07384046  0.20878502  0.5323013 ]
1895 {}
1896 [-0.08590616  0.11782825  0.21943105  0.31197961]
```

```
1897 {}
1898 Episode finished after 29 steps
1899 [-0.02844123 0.21011023 0.04710975 -0.25001243]
1900 {}
1901 [-0.02423902 0.40452888 0.0421095 -0.52747171]
1902 {}
1903 [-0.01614844 0.20884053 0.03156007 -0.22182287]
1904 {}
1905 [-0.01197163 0.01328203 0.02712361 0.08064594]
1906 {}
1907 [-0.01170599 -0.18221803 0.02873653 0.38176152]
1908 {}
1909 [-0.01535035 -0.37773598 0.03637176 0.68336475]
1910 {}
1911 [-0.02290507 -0.5733436 0.05003905 0.98727306]
1912 {}
1913 [-0.03437194 -0.37892612 0.06978451 0.7107172 ]
1914 {}
1915 [-0.04195047 -0.18483642 0.08399886 0.44079126]
1916 {}
1917 [-0.0456472 0.00900259 0.09281468 0.17572454]
1918 {}
1919 [-0.04546714 0.20268213 0.09632917 -0.08629597]
1920 {}
1921 [-0.0414135 0.39630076 0.09460326 -0.34710046]
1922 {}
1923 [-0.03348749 0.5899587 0.08766125 -0.60851656]
1924 {}
1925 [-0.02168831 0.39372767 0.07549091 -0.28956083]
1926 {}
1927 [-0.01381376 0.58769652 0.0696997 -0.55751219]
1928 {}
1929 [-0.00205983 0.78177435 0.05854945 -0.82744697]
1930 {}
```

```
1931 [ 0.01357566 0.97604895 0.04200051 -1.10115582]
1932 {}
1933 [ 0.03309664 1.17059384 0.0199774 -1.38037127]
1934 {}
1935 [ 0.05650852 1.3654608 -0.00763003 -1.66674043]
1936 {}
1937 [ 0.08381773 1.56067066 -0.04096484 -1.96178991]
1938 {}
1939 [ 0.11503114 1.75620169 -0.08020063 -2.26688068]
1940 {}
1941 [ 0.15015518 1.95197532 -0.12553825 -2.58315092]
1942 {}
1943 [ 0.18919468 1.75804228 -0.17720127 -2.33135199]
1944 {}
1945 [ 0.22435553 1.95427181 -0.22382831 -2.67291207]
1946 {}
1947 Episode finished after 24 steps
1948 [ 0.01877897 0.22535908 0.04290935 -0.24045666]
1949 {}
1950 [0.02328615 0.02965128 0.03810022 0.06544632]
1951 {}
1952 [ 0.02387917 -0.16599563 0.03940915 0.36990245]
1953 {}
1954 [0.02055926 0.02854488 0.0468072 0.08990154]
1955 {}
1956 [ 0.02113016 -0.16721564 0.04860523 0.39697701]
1957 {}
1958 [0.01778585 0.02718423 0.05654477 0.1200059 ]
1959 {}
1960 [ 0.01832953 0.22145237 0.05894489 -0.15431528]
1961 {}
1962 [0.02275858 0.02553813 0.05585858 0.15636545]
1963 {}
1964 [ 0.02326934 0.21981768 0.05898589 -0.11818546]
```

```
1965 []
1966 [0.02766569 0.02390237 0.05662218 0.19250821]
1967 []
1968 [ 0.02814374 -0.17198194 0.06047234 0.50250182]
1969 []
1970 [ 0.0247041 -0.3679018 0.07052238 0.81361245]
1971 []
1972 [ 0.01734607 -0.1738129 0.08679463 0.54391916]
1973 []
1974 [0.01386981 0.019989 0.09767301 0.27979621]
1975 []
1976 [0.01426959 0.2135918 0.10326894 0.01944636]
1977 []
1978 [ 0.01854143 0.40709281 0.10365786 -0.23895171]
1979 []
1980 [0.02668328 0.21065453 0.09887883 0.08454495]
1981 []
1982 [0.03089637 0.01426447 0.10056973 0.40671417]
1983 []
1984 [0.03118166 0.20782724 0.10870401 0.14735476]
1985 []
1986 [0.03533821 0.0113301 0.11165111 0.47225683]
1987 []
1988 [ 0.03556481 -0.18517708 0.12109624 0.79793953]
1989 []
1990 [ 0.03186127 -0.38173388 0.13705503 1.12613095]
1991 []
1992 [ 0.02422659 -0.57835928 0.15957765 1.45847145]
1993 []
1994 [ 0.0126594 -0.38551378 0.18874708 1.21959547]
1995 []
1996 [ 0.00494913 -0.58249911 0.21313899 1.56498855]
1997 []
1998 Episode finished after 25 steps
```

1999	[0.03960849 0.18857325 -0.02769226 -0.3233511]
2000	{}
2001	[0.04337995 -0.00614365 -0.03415928 -0.03952821]
2002	{}
2003	[0.04325708 0.18945106 -0.03494985 -0.34279001]
2004	{}
2005	[0.0470461 0.38505236 -0.04180565 -0.64628593]
2006	{}
2007	[0.05474715 0.58073113 -0.05473137 -0.95183491]
2008	{}
2009	[0.06636177 0.38638674 -0.07376806 -0.67683783]
2010	{}
2011	[0.0740895 0.19236307 -0.08730482 -0.40826199]
2012	{}
2013	[0.07793677 0.3886074 -0.09547006 -0.72714236]
2014	{}
2015	[0.08570891 0.19492593 -0.11001291 -0.46596872]
2016	{}
2017	[0.08960743 0.00151635 -0.11933228 -0.20988679]
2018	{}
2019	[0.08963776 -0.19171513 -0.12353002 0.04289866]
2020	{}
2021	[0.08580346 0.00494177 -0.12267205 -0.28606439]
2022	{}
2023	[0.08590229 0.20158022 -0.12839333 -0.61478071]
2024	{}
2025	[0.0899339 0.39824022 -0.14068895 -0.94498663]
2026	{}
2027	[0.0978987 0.59494816 -0.15958868 -1.27835945]
2028	{}
2029	[0.10979766 0.40217911 -0.18515587 -1.0396004]
2030	{}
2031	[0.11784125 0.20993493 -0.20594788 -0.81028833]
2032	{}

```
2033 [ 0.12203995  0.40719309 -0.22215364 -1.16004432]
2034 {}
2035 Episode finished after 18 steps
2036 [ 0.02279769  0.20300177 -0.02526804 -0.30480493]
2037 {}
2038 [ 0.02685773  0.00824885 -0.03136414 -0.02019682]
2039 {}
2040 [ 0.02702271  0.20380623 -0.03176807 -0.32260817]
2041 {}
2042 [ 0.03109883  0.39936582 -0.03822024 -0.62513778]
2043 {}
2044 [ 0.03908615  0.5949999 -0.05072299 -0.92960861]
2045 {}
2046 [ 0.05098615  0.79076848 -0.06931517 -1.23778997]
2047 {}
2048 [ 0.06680151  0.59660205 -0.09407097 -0.96760206]
2049 {}
2050 [ 0.07873356  0.40286055 -0.11342301 -0.70589081]
2051 {}
2052 [ 0.08679077  0.59935604 -0.12754082 -1.03201509]
2053 {}
2054 [ 0.09877789  0.40614001 -0.14818112 -0.78194051]
2055 {}
2056 [ 0.10690069  0.60295414 -0.16381993 -1.11733245]
2057 {}
2058 [ 0.11895977  0.41031607 -0.18616658 -0.88019197]
2059 {}
2060 [ 0.12716609  0.60741268 -0.20377042 -1.2251458 ]
2061 {}
2062 [ 0.13931435  0.80448991 -0.22827334 -1.57414029]
2063 {}
2064 Episode finished after 14 steps
2065 [-0.03460408 -0.24429257  0.04186664  0.32866422]
2066 {}
```

```
2067 [-0.03948993 -0.04979087  0.04843993  0.04947252]
2068 {}
2069 [-0.04048575  0.14460424  0.04942938 -0.22754233]
2070 {}
2071 [-0.03759366  0.33898623  0.04487853 -0.50423287]
2072 {}
2073 [-0.03081394  0.53344791  0.03479387 -0.78244184]
2074 {}
2075 [-0.02014498  0.33786546  0.01914504 -0.47901839]
2076 {}
2077 [-0.01338767  0.14247853  0.00956467 -0.18036342]
2078 {}
2079 [-0.0105381   0.33746232  0.0059574  -0.47001375]
2080 {}
2081 [-0.00378885  0.53249961 -0.00344287 -0.76081303]
2082 {}
2083 [ 0.00686114  0.72766882 -0.01865913 -1.05457732]
2084 {}
2085 [ 0.02141452  0.92303309 -0.03975068 -1.35305817]
2086 {}
2087 [ 0.03987518  1.11863094 -0.06681184 -1.6579068 ]
2088 {}
2089 [ 0.0622478   1.31446533 -0.09996998 -1.97063106]
2090 {}
2091 [ 0.0885371   1.51049047 -0.1393826  -2.29254294]
2092 {}
2093 [ 0.11874691  1.70659623 -0.18523346 -2.62469475]
2094 {}
2095 [ 0.15287884  1.90259004 -0.23772735 -2.967804 ]
2096 {}
2097 Episode finished after 16 steps
2098 [ 0.03210515 -0.21419517 -0.0034289  0.32942963]
2099 {}
2100 [ 0.02782125 -0.40926814  0.00315969  0.62102927]
```

```
2101 []
2102 [ 0.01963589 -0.60443408  0.01558028  0.91470566]
2103 []
2104 [ 0.0075472 -0.79976325  0.03387439  1.21224427]
2105 []
2106 [-0.00844806 -0.60509452  0.05811928  0.93036585]
2107 []
2108 [-0.02054995 -0.8009507  0.07672659  1.24073154]
2109 []
2110 [-0.03656896 -0.99696932  0.10154122  1.55642992]
2111 []
2112 [-0.05650835 -0.80319975  0.13266982  1.29707453]
2113 []
2114 [-0.07257235 -0.60998849  0.15861131  1.04869508]
2115 []
2116 [-0.08477212 -0.41728559  0.17958521  0.80970551]
2117 []
2118 [-0.09311783 -0.61435372  0.19577932  1.1530685 ]
2119 []
2120 [-0.1054049 -0.42224793  0.21884069  0.92760682]
2121 []
2122 Episode finished after 12 steps
2123 [-0.0067603  0.15872334 -0.0091822 -0.26512301]
2124 []
2125 [-0.00358583  0.35397513 -0.01448466 -0.56068788]
2126 []
2127 [ 0.00349367  0.15905943 -0.02569841 -0.27260334]
2128 []
2129 [ 0.00667486  0.35453847 -0.03115048 -0.57327958]
2130 []
2131 [ 0.01376563  0.1598668 -0.04261607 -0.29057051]
2132 []
2133 [ 0.01696297  0.35556969 -0.04842748 -0.59638365]
2134 []
```

```
2135 [ 0.02407436 0.16115771 -0.06035516 -0.31933968]
2136 {}
2137 [ 0.02729751 0.35708498 -0.06674195 -0.63042911]
2138 {}
2139 [ 0.03443921 0.16295469 -0.07935053 -0.35948957]
2140 {}
2141 [ 0.03769831 -0.03095487 -0.08654032 -0.09284504]
2142 {}
2143 [ 0.03707921 -0.2247367 -0.08839722 0.17132881]
2144 {}
2145 [ 0.03258448 -0.41848953 -0.08497065 0.43486835]
2146 {}
2147 [ 0.02421468 -0.2222739 -0.07627328 0.11665546]
2148 {}
2149 [ 0.01976921 -0.02614666 -0.07394017 -0.19908269]
2150 {}
2151 [ 0.01924627 0.16995069 -0.07792183 -0.51414361]
2152 {}
2153 [ 0.02264529 0.3660786 -0.0882047 -0.83032863]
2154 {}
2155 [ 0.02996686 0.56228832 -0.10481127 -1.14939763]
2156 {}
2157 [ 0.04121263 0.36867875 -0.12779922 -0.89133509]
2158 {}
2159 [ 0.0485862 0.56528117 -0.14562593 -1.2213045 ]
2160 {}
2161 [ 0.05989182 0.76194802 -0.17005202 -1.55584514]
2162 {}
2163 [ 0.07513078 0.56922233 -0.20116892 -1.32068111]
2164 {}
2165 [ 0.08651523 0.76623655 -0.22758254 -1.66898842]
2166 {}
2167 Episode finished after 22 steps
2168 Average Number of Steps:21.12
```

2169

2170 Process finished with exit code 0

2171