/Users/seantao/anaconda/envs/deeplearning/bin/python3 /Users/seantao/
Desktop/703FinalProject/a2cDouble.py
/Users/seantao/anaconda/envs/deeplearning/lib/python3.5/site-packages/h5py/
__init__.py:34: FutureWarning: Conversion of the second argument of issubdtype
from `float` to `np.floating` is deprecated. In future, it will be treated as
`np.float64 == np.dtype(float).type`.
  from ._conv import register_converters as _register_converters
Using TensorFlow backend.
[2018-03-16 02:02:55,502] Making new env: Particle-3-4-Sparse-v0
Running PD controller towards goal [3 4]
in init!!!!!!!!!!!!
2018-03-16 02:02:58.008193: W tensorflow/core/platform/cpu_feature_guard.cc:
45] The TensorFlow library wasn't compiled to use SSE4.2 instructions, but these
are available on your machine and could speed up CPU computations.
2018-03-16 02:02:58.008210: W tensorflow/core/platform/cpu_feature_guard.cc:
45] The TensorFlow library wasn't compiled to use AVX instructions, but these are
available on your machine and could speed up CPU computations.
2018-03-16 02:02:58.008216: W tensorflow/core/platform/cpu_feature_guard.cc:
45] The TensorFlow library wasn't compiled to use AVX2 instructions, but these
are available on your machine and could speed up CPU computations.
2018-03-16 02:02:58.008221: W tensorflow/core/platform/cpu_feature_guard.cc:
45] The TensorFlow library wasn't compiled to use FMA instructions, but these are
available on your machine and could speed up CPU computations.
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episode: 5   score: -157.02618289573468 numIters: 100
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episode: 7   score: -168.4202375856291 numIters: 100
episode: 8   score: -162.89819840032948 numIters: 100
episode: 9   score: -165.48429184882667 numIters: 100
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episode: 11   score: -146.2135057016204 numIters: 100
episode: 12   score: -164.35072236963293 numIters: 100
episode: 13   score: -166.60027744427464 numIters: 100
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episode: 15   score: -147.59486244224752 numIters: 100
episode: 16   score: -159.5477214098661 numIters: 100
episode: 17   score: -161.99224672175086 numIters: 100

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episode: 19   score: -165.8376807560175  numIters:  100
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episode: 21   score: -158.8067664693685  numIters:  100
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episode: 58   score: -171.63359449807336  numIters:  100
```

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Testing:
Testing results:  score: -165.97665287526544  numIters:  100
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Testing:
Testing results: score: -170.80891927933217 numIters: 100
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episode: 293 score: -54.20510669314886 numIters: 100
episode: 294 score: -58.19163930569563 numIters: 100
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episode: 296 score: -52.354572979518004 numIters: 100
episode: 297 score: -50.69717299311587 numIters: 100
episode: 298 score: -50.05702252837868 numIters: 100
episode: 299 score: -55.77577085960484 numIters: 100
Testing:
Testing results: score: -54.355052954812294 numIters: 100
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episode: 304 score: -53.64474677169452 numIters: 100
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episode: 306 score: -55.07301908192447 numIters: 100

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episode: 323   score: -58.036618375215504  numIters: 100
episode: 324   score: -64.30456387264226  numIters: 100
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episode: 335   score: -58.22776163983584  numIters: 100
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episode: 339   score: -67.15435372673377  numIters: 100
episode: 340   score: -66.74363084907652  numIters: 100
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episode: 344   score: -81.08208161403347  numIters: 100
episode: 345   score: -102.44286711427513  numIters: 100
episode: 346   score: -102.82545897153285  numIters: 100
episode: 347   score: -104.77220105779092  numIters: 100
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episode: 349   score: -106.40417776235479  numIters: 100
```

Testing:
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episode: 353   score: –106.02885408355523 numIters: 100
episode: 354   score: –107.12243617257514 numIters: 100
episode: 355   score: –105.89587210091489 numIters: 100
episode: 356   score: –106.49831909225757 numIters: 100
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episode: 358   score: –106.16057668819903 numIters: 100
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episode: 362   score: –101.89260641008947 numIters: 100
episode: 363   score: –102.47736655723831 numIters: 100
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episode: 366   score: –98.9642533969158 numIters: 100
episode: 367   score: –97.78310221365594 numIters: 100
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episode: 369   score: –95.4301658741583 numIters: 100
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episode: 377   score: –98.06520650933423 numIters: 100
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episode: 379   score: –98.81774662534394 numIters: 100
episode: 380   score: –98.88301607450828 numIters: 100
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episode: 386   score: –106.2686816219597 numIters: 100
episode: 387   score: –105.88708109174868 numIters: 100
episode: 388   score: –107.37861658302671 numIters: 100
episode: 389   score: –106.61926439175946 numIters: 100
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Testing:
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episode: 449   score: -63.88559444348424 numIters: 100
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Testing results: score: -63.52992323125353 numIters: 100
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episode: 471   score: -84.26754620885563 numIters: 100
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episode: 474   score: -80.68523740339744  numIters:  100
episode: 475   score: -85.4395873456105  numIters:  100
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Testing results:  score: -128.71351370173716  numIters:  100
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Testing:
Testing results: score: -144.4037837198457 numIters: 100
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episode: 562   score: -94.61762370906412 numIters: 100
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episode: 568   score: -93.39942284412967 numIters: 100
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episode: 579   score: -97.54283451908871 numIters: 100
episode: 580   score: -100.47373932922581 numIters: 100
episode: 581   score: -96.94235204677025 numIters: 100
episode: 582   score: -100.8578344432424 numIters: 100
episode: 583   score: -96.55855707225969 numIters: 100
episode: 584   score: -99.0444227844951 numIters: 100
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episode: 588   score: -98.12046822673801 numIters: 100
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episode: 593   score: -93.53413703358909 numIters: 100
episode: 594   score: -88.21146863799423 numIters: 100
episode: 595   score: -89.83516082005737 numIters: 100
episode: 596   score: -91.22172779991845 numIters: 100
episode: 597   score: -93.17615326523115 numIters: 100

episode: 598   score: -92.6079343372959 numIters: 100
episode: 599   score: -93.38127250693343 numIters: 100
Testing:
Testing results: score: -92.83346103848946 numIters: 100
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episode: 601   score: -94.3635998947004 numIters: 100
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episode: 603   score: -92.09652287872856 numIters: 100
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episode: 608   score: -91.9543478789364 numIters: 100
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episode: 610   score: -89.4362389649472 numIters: 100
episode: 611   score: -89.65844747623878 numIters: 100
episode: 612   score: -90.78490986577822 numIters: 100
episode: 613   score: -89.29879309418439 numIters: 100
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episode: 617   score: -85.85662225800272 numIters: 100
episode: 618   score: -88.00232791001253 numIters: 100
episode: 619   score: -87.28926181212533 numIters: 100
episode: 620   score: -85.84268923656585 numIters: 100
episode: 621   score: -85.9746605346125 numIters: 100
episode: 622   score: -85.7898746050608 numIters: 100
episode: 623   score: -87.60586563432705 numIters: 100
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episode: 625   score: -85.43587133301435 numIters: 100
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episode: 629   score: -85.88392156729604 numIters: 100
episode: 630   score: -87.01652772867689 numIters: 100
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episode: 633   score: -83.7010906035746 numIters: 100
episode: 634   score: -86.15962536316079 numIters: 100
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episode: 637   score: -88.40890280687778 numIters: 100
episode: 638   score: -86.50916831200749 numIters: 100

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episode: 647   score: -80.33809208297124  numIters:  100
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episode: 649   score: -82.3116360860115  numIters:  100
Testing:
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episode: 651   score: -78.3838915445488  numIters:  100
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episode: 655   score: -79.95845464183441  numIters:  100
episode: 656   score: -83.26017333031088  numIters:  100
episode: 657   score: -83.32074414404954  numIters:  100
episode: 658   score: -82.77235864322898  numIters:  100
episode: 659   score: -81.98928333753574  numIters:  100
episode: 660   score: -82.71821852609858  numIters:  100
episode: 661   score: -81.98470184602499  numIters:  100
episode: 662   score: -80.2769538777909  numIters:  100
episode: 663   score: -78.44729737016266  numIters:  100
episode: 664   score: -78.46837782140403  numIters:  100
episode: 665   score: -78.68698043086744  numIters:  100
episode: 666   score: -80.10405311410095  numIters:  100
episode: 667   score: -80.70201254088676  numIters:  100
episode: 668   score: -79.76733440530084  numIters:  100
episode: 669   score: -79.22447841714026  numIters:  100
episode: 670   score: -78.09711586350902  numIters:  100
episode: 671   score: -77.15735205150142  numIters:  100
episode: 672   score: -75.97850439322083  numIters:  100
episode: 673   score: -75.20952283474726  numIters:  100
episode: 674   score: -75.77789443943644  numIters:  100
episode: 675   score: -76.10870721610118  numIters:  100
episode: 676   score: -77.23348880574977  numIters:  100
episode: 677   score: -77.81834856131631  numIters:  100
episode: 678   score: -80.84870104754228  numIters:  100
episode: 679   score: -83.7586853184121  numIters:  100
```

episode: 680   score: -84.4590782535408 numIters: 100
episode: 681   score: -83.23827436616268 numIters: 100
episode: 682   score: -81.04783629863104 numIters: 100
episode: 683   score: -77.85914130634922 numIters: 100
episode: 684   score: -78.99791054138132 numIters: 100
episode: 685   score: -84.05276056004469 numIters: 100
episode: 686   score: -86.73991041679247 numIters: 100
episode: 687   score: -87.7763326385639 numIters: 100
episode: 688   score: -85.1127963571767 numIters: 100
episode: 689   score: -83.54846619853872 numIters: 100
episode: 690   score: -85.20583864262174 numIters: 100
episode: 691   score: -85.2225863639057 numIters: 100
episode: 692   score: -86.4433570321894 numIters: 100
episode: 693   score: -85.80537470785285 numIters: 100
episode: 694   score: -86.31666823322895 numIters: 100
episode: 695   score: -84.75711987627365 numIters: 100
episode: 696   score: -84.41949236046284 numIters: 100
episode: 697   score: -85.88494718839816 numIters: 100
episode: 698   score: -86.01639306215525 numIters: 100
episode: 699   score: -87.79356296804819 numIters: 100
Testing:
Testing results: score: -89.37802961562397 numIters: 100
episode: 700   score: -89.00490900984475 numIters: 100
episode: 701   score: -86.27634861500425 numIters: 100
episode: 702   score: -86.70446923039601 numIters: 100
episode: 703   score: -85.9346106199943 numIters: 100
episode: 704   score: -87.08787142061944 numIters: 100
episode: 705   score: -88.80948296160163 numIters: 100
episode: 706   score: -87.05707800004052 numIters: 100
episode: 707   score: -87.43241132493934 numIters: 100
episode: 708   score: -86.58600445707891 numIters: 100
episode: 709   score: -86.14084660414301 numIters: 100
episode: 710   score: -86.21193934149434 numIters: 100
episode: 711   score: -85.95579000640818 numIters: 100
episode: 712   score: -86.45949809960399 numIters: 100
episode: 713   score: -88.30341372391871 numIters: 100
episode: 714   score: -88.46629311552061 numIters: 100
episode: 715   score: -89.6209808337802 numIters: 100
episode: 716   score: -89.88202693865217 numIters: 100
episode: 717   score: -89.3379551471419 numIters: 100
episode: 718   score: -89.79863532212741 numIters: 100
episode: 719   score: -89.17633722395338 numIters: 100
episode: 720   score: -89.4734359375464 numIters: 100

episode: 721 score: -90.06201988761308 numIters: 100
episode: 722 score: -92.27457749128796 numIters: 100
episode: 723 score: -91.21675915386405 numIters: 100
episode: 724 score: -89.31018146461228 numIters: 100
episode: 725 score: -87.74394166421291 numIters: 100
episode: 726 score: -89.0974544716405 numIters: 100
episode: 727 score: -91.22401107759795 numIters: 100
episode: 728 score: -93.32517664036212 numIters: 100
episode: 729 score: -91.81966020033146 numIters: 100
episode: 730 score: -86.76839075803652 numIters: 100
episode: 731 score: -81.76590385099084 numIters: 100
episode: 732 score: -87.04478000404103 numIters: 100
episode: 733 score: -91.43046384480422 numIters: 100
episode: 734 score: -96.35100411682309 numIters: 100
episode: 735 score: -98.56351896658204 numIters: 100
episode: 736 score: -96.38573828197154 numIters: 100
episode: 737 score: -90.79233279562075 numIters: 100
episode: 738 score: -82.73997710474822 numIters: 100
episode: 739 score: -79.58314341002747 numIters: 100
episode: 740 score: -84.70761217588586 numIters: 100
episode: 741 score: -87.0387518380226 numIters: 100
episode: 742 score: -88.74712058115128 numIters: 100
episode: 743 score: -89.95471270310125 numIters: 100
episode: 744 score: -90.86020903774556 numIters: 100
episode: 745 score: -91.04856615489759 numIters: 100
episode: 746 score: -91.50164251566254 numIters: 100
episode: 747 score: -93.0750947952604 numIters: 100
episode: 748 score: -94.07837751746005 numIters: 100
episode: 749 score: -94.3152279824549 numIters: 100
Testing:
Testing results: score: -92.88575389932603 numIters: 100
episode: 750 score: -92.47131772940564 numIters: 100
episode: 751 score: -89.94620035029976 numIters: 100
episode: 752 score: -85.61519108609833 numIters: 100
episode: 753 score: -86.41963934388097 numIters: 100
episode: 754 score: -89.25875997573776 numIters: 100
episode: 755 score: -95.26926962340515 numIters: 100
episode: 756 score: -109.71001290101967 numIters: 100
episode: 757 score: -116.11840773487273 numIters: 100
episode: 758 score: -119.77343927184964 numIters: 100
episode: 759 score: -125.04131834305792 numIters: 100
episode: 760 score: -127.67671241063732 numIters: 100
episode: 761 score: -130.0233947803389 numIters: 100

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episode: 762   score: -129.9129118846825  numIters:  100
episode: 763   score: -130.38079072050053  numIters:  100
episode: 764   score: -131.02582325841618  numIters:  100
episode: 765   score: -129.95202905743784  numIters:  100
episode: 766   score: -129.70261236929875  numIters:  100
episode: 767   score: -130.2177343655164  numIters:  100
episode: 768   score: -129.24724173813473  numIters:  100
episode: 769   score: -127.85732566609131  numIters:  100
episode: 770   score: -124.5472129433808  numIters:  100
episode: 771   score: -123.54374104501134  numIters:  100
episode: 772   score: -131.76298700475735  numIters:  100
episode: 773   score: -133.45911335013457  numIters:  100
episode: 774   score: -130.34054594041504  numIters:  100
episode: 775   score: -126.5980590957502  numIters:  100
episode: 776   score: -121.28057158015801  numIters:  100
episode: 777   score: -112.92243637144492  numIters:  100
episode: 778   score: -92.1428534701672  numIters:  100
episode: 779   score: -83.45320488193916  numIters:  100
episode: 780   score: -81.51352214742671  numIters:  100
episode: 781   score: -88.09342362247048  numIters:  100
episode: 782   score: -85.42094843877665  numIters:  100
episode: 783   score: -83.4355482990127  numIters:  100
episode: 784   score: -81.54487806851189  numIters:  100
episode: 785   score: -84.4231200964961  numIters:  100
episode: 786   score: -84.64436304873152  numIters:  100
episode: 787   score: -85.78965189249094  numIters:  100
episode: 788   score: -86.88533480703634  numIters:  100
episode: 789   score: -86.84486236113828  numIters:  100
episode: 790   score: -86.26762898819915  numIters:  100
episode: 791   score: -86.54207550456582  numIters:  100
episode: 792   score: -86.760774363831  numIters:  100
episode: 793   score: -86.43565062570607  numIters:  100
episode: 794   score: -85.48626589190513  numIters:  100
episode: 795   score: -85.62174318724632  numIters:  100
episode: 796   score: -86.69521179740909  numIters:  100
episode: 797   score: -87.12615650233538  numIters:  100
episode: 798   score: -87.33276889105666  numIters:  100
episode: 799   score: -86.24169576989254  numIters:  100
Testing:
Testing results:  score: -84.24054896866113  numIters:  100
episode: 800   score: -84.20392675069294  numIters:  100
episode: 801   score: -82.65125423548075  numIters:  100
episode: 802   score: -82.91786749369938  numIters:  100
```

```
episode: 803   score: -85.50189332816691  numIters:  100
episode: 804   score: -84.43242544786266  numIters:  100
episode: 805   score: -83.86324438863254  numIters:  100
episode: 806   score: -83.30064011503109  numIters:  100
episode: 807   score: -82.52294385847345  numIters:  100
episode: 808   score: -82.25246382971578  numIters:  100
episode: 809   score: -79.9197570008849  numIters:  100
episode: 810   score: -81.88321515182318  numIters:  100
episode: 811   score: -80.93890758724723  numIters:  100
episode: 812   score: -84.21289579623968  numIters:  100
episode: 813   score: -78.76597569924282  numIters:  100
episode: 814   score: -80.64764129709744  numIters:  100
episode: 815   score: -79.62512375162638  numIters:  100
episode: 816   score: -83.91349827298701  numIters:  100
episode: 817   score: -81.30048432447417  numIters:  100
episode: 818   score: -82.88014227437742  numIters:  100
episode: 819   score: -80.19040033179887  numIters:  100
episode: 820   score: -82.61675259548262  numIters:  100
episode: 821   score: -80.85637525220824  numIters:  100
episode: 822   score: -83.42873042755693  numIters:  100
episode: 823   score: -80.50167116710601  numIters:  100
episode: 824   score: -84.90058780548102  numIters:  100
episode: 825   score: -80.11367416633063  numIters:  100
episode: 826   score: -85.53144028968406  numIters:  100
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episode: 828   score: -85.65105905691529  numIters:  100
episode: 829   score: -81.38584446599164  numIters:  100
episode: 830   score: -81.25175667886464  numIters:  100
episode: 831   score: -80.57577834751295  numIters:  100
episode: 832   score: -83.09996481088906  numIters:  100
episode: 833   score: -82.32589302458611  numIters:  100
episode: 834   score: -83.79822964231012  numIters:  100
episode: 835   score: -81.44196684931279  numIters:  100
episode: 836   score: -82.35272475703603  numIters:  100
episode: 837   score: -80.85076641412962  numIters:  100
episode: 838   score: -81.53224757144675  numIters:  100
episode: 839   score: -81.12334199832075  numIters:  100
episode: 840   score: -83.2591053230825  numIters:  100
episode: 841   score: -82.12571377019071  numIters:  100
episode: 842   score: -85.86010155383781  numIters:  100
episode: 843   score: -81.22132201153197  numIters:  100
episode: 844   score: -79.70728335523695  numIters:  100
episode: 845   score: -79.4967083540935  numIters:  100
```

episode: 846   score: -80.16037234708762   numIters: 100
episode: 847   score: -79.46919350121965   numIters: 100
episode: 848   score: -79.77057485365931   numIters: 100
episode: 849   score: -79.9839840707516   numIters: 100
Testing:
Testing results: score: -80.0251537396093   numIters: 100
episode: 850   score: -80.10601355438389   numIters: 100
episode: 851   score: -79.91554908536159   numIters: 100
episode: 852   score: -80.22948154369904   numIters: 100
episode: 853   score: -79.9833336377461   numIters: 100
episode: 854   score: -81.1326693733999   numIters: 100
episode: 855   score: -80.94491509100646   numIters: 100
episode: 856   score: -80.67166711755057   numIters: 100
episode: 857   score: -81.543316877287   numIters: 100
episode: 858   score: -81.79622942852932   numIters: 100
episode: 859   score: -81.88413934024595   numIters: 100
episode: 860   score: -82.04294354626418   numIters: 100
episode: 861   score: -81.50282471699052   numIters: 100
episode: 862   score: -81.73397626943358   numIters: 100
episode: 863   score: -81.67553194156761   numIters: 100
episode: 864   score: -81.2270874967811   numIters: 100
episode: 865   score: -82.10677630325202   numIters: 100
episode: 866   score: -81.91417371311263   numIters: 100
episode: 867   score: -82.17269317582101   numIters: 100
episode: 868   score: -81.73075219954815   numIters: 100
episode: 869   score: -82.09802738513272   numIters: 100
episode: 870   score: -82.6164209491386   numIters: 100
episode: 871   score: -81.29397073150905   numIters: 100
episode: 872   score: -81.66705660824405   numIters: 100
episode: 873   score: -82.307257170482   numIters: 100
episode: 874   score: -80.98595048716828   numIters: 100
episode: 875   score: -82.64591502883884   numIters: 100
episode: 876   score: -81.77003181924886   numIters: 100
episode: 877   score: -82.32485605214634   numIters: 100
episode: 878   score: -81.75604891856412   numIters: 100
episode: 879   score: -82.30341483655762   numIters: 100
episode: 880   score: -82.17708390223797   numIters: 100
episode: 881   score: -81.89014586557904   numIters: 100
episode: 882   score: -82.18350283753885   numIters: 100
episode: 883   score: -81.32137900572901   numIters: 100
episode: 884   score: -82.01762581646379   numIters: 100
episode: 885   score: -83.82387700553299   numIters: 100
episode: 886   score: -81.4499308398608   numIters: 100

episode: 887   score: -81.65215739878893 numIters: 100
episode: 888   score: -82.0170021821622 numIters: 100
episode: 889   score: -81.5129304051355 numIters: 100
episode: 890   score: -80.80005367586803 numIters: 100
episode: 891   score: -81.03624314575057 numIters: 100
episode: 892   score: -81.64464073788345 numIters: 100
episode: 893   score: -80.94257040166352 numIters: 100
episode: 894   score: -80.43312089308158 numIters: 100
episode: 895   score: -81.55935685922343 numIters: 100
episode: 896   score: -80.80421125129563 numIters: 100
episode: 897   score: -81.26564393176156 numIters: 100
episode: 898   score: -81.48751512397264 numIters: 100
episode: 899   score: -81.37560967314249 numIters: 100
Testing:
Testing results: score: -81.62826726597862 numIters: 100
episode: 900   score: -81.73501409120821 numIters: 100
episode: 901   score: -80.03506276413957 numIters: 100
episode: 902   score: -79.76830560630465 numIters: 100
episode: 903   score: -82.06292085178097 numIters: 100
episode: 904   score: -80.62979394281797 numIters: 100
episode: 905   score: -80.4399533989773 numIters: 100
episode: 906   score: -79.82831445282729 numIters: 100
episode: 907   score: -80.13172195162522 numIters: 100
episode: 908   score: -79.712889726947 numIters: 100
episode: 909   score: -79.21509082678473 numIters: 100
episode: 910   score: -79.36490390168673 numIters: 100
episode: 911   score: -79.01922610478303 numIters: 100
episode: 912   score: -79.27030073598686 numIters: 100
episode: 913   score: -77.96715709484074 numIters: 100
episode: 914   score: -80.64845168021563 numIters: 100
episode: 915   score: -79.64225065786634 numIters: 100
episode: 916   score: -80.3823317920759 numIters: 100
episode: 917   score: -79.87545544796363 numIters: 100
episode: 918   score: -83.27584779666118 numIters: 100
episode: 919   score: -80.81115636091957 numIters: 100
episode: 920   score: -85.11426047588398 numIters: 100
episode: 921   score: -81.03376803625667 numIters: 100
episode: 922   score: -84.5996831659893 numIters: 100
episode: 923   score: -81.79078647811686 numIters: 100
episode: 924   score: -83.14918595401757 numIters: 100
episode: 925   score: -81.85299048044189 numIters: 100
episode: 926   score: -83.53399998516875 numIters: 100
episode: 927   score: -82.6933786672588 numIters: 100

episode: 928   score: -84.18590856774546 numIters: 100
episode: 929   score: -85.59849560177418 numIters: 100
episode: 930   score: -83.35337257438708 numIters: 100
episode: 931   score: -83.70125479867255 numIters: 100
episode: 932   score: -84.8605169772553 numIters: 100
episode: 933   score: -86.64144274264535 numIters: 100
episode: 934   score: -87.75796220416393 numIters: 100
episode: 935   score: -87.94631027654981 numIters: 100
episode: 936   score: -87.62345613835419 numIters: 100
episode: 937   score: -87.46770350648748 numIters: 100
episode: 938   score: -87.77010949544912 numIters: 100
episode: 939   score: -87.61551099086921 numIters: 100
episode: 940   score: -88.16756907408318 numIters: 100
episode: 941   score: -87.87286232034585 numIters: 100
episode: 942   score: -88.29309031782023 numIters: 100
episode: 943   score: -87.17315992359954 numIters: 100
episode: 944   score: -85.96946048846269 numIters: 100
episode: 945   score: -83.65831906449034 numIters: 100
episode: 946   score: -82.10163385359334 numIters: 100
episode: 947   score: -82.82448232194119 numIters: 100
episode: 948   score: -83.18509610986571 numIters: 100
episode: 949   score: -81.50096608893286 numIters: 100
Testing:
Testing results: score: -83.97841197268448 numIters: 100
episode: 950   score: -84.06653787177791 numIters: 100
episode: 951   score: -82.41738557651708 numIters: 100
episode: 952   score: -82.69854731597195 numIters: 100
episode: 953   score: -83.5551949009102 numIters: 100
episode: 954   score: -83.77985870502555 numIters: 100
episode: 955   score: -82.9459308836029 numIters: 100
episode: 956   score: -83.67310118909467 numIters: 100
episode: 957   score: -82.10608298399245 numIters: 100
episode: 958   score: -83.47487625609064 numIters: 100
episode: 959   score: -83.41808211663034 numIters: 100
episode: 960   score: -83.71092522182296 numIters: 100
episode: 961   score: -82.16764078408931 numIters: 100
episode: 962   score: -82.98800678745775 numIters: 100
episode: 963   score: -80.59891831255314 numIters: 100
episode: 964   score: -80.40942243206018 numIters: 100
episode: 965   score: -82.6990753501925 numIters: 100
episode: 966   score: -78.99097914988722 numIters: 100
episode: 967   score: -78.07589064336808 numIters: 100
episode: 968   score: -76.40184315765283 numIters: 100

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episode: 970   score: 71.92079573926746   numIters: 42
episode: 971   score: -77.53523588122897   numIters: 100
episode: 972   score: -80.69725184184458   numIters: 100
episode: 973   score: -80.71078651470715   numIters: 100
episode: 974   score: -80.8331719811958   numIters: 100
episode: 975   score: -79.63838743525062   numIters: 100
episode: 976   score: -80.98728516365188   numIters: 100
episode: 977   score: -79.82372193619251   numIters: 100
episode: 978   score: -79.38276494269819   numIters: 100
episode: 979   score: -80.18380520934679   numIters: 100
episode: 980   score: -79.6835221552075   numIters: 100
episode: 981   score: -80.01611955854396   numIters: 100
episode: 982   score: -79.90586328852588   numIters: 100
episode: 983   score: -80.68181451766365   numIters: 100
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episode: 986   score: -80.41746809368308   numIters: 100
episode: 987   score: -80.04231127816746   numIters: 100
episode: 988   score: -80.60292084823716   numIters: 100
episode: 989   score: -80.67290890780343   numIters: 100
episode: 990   score: -80.72962071182737   numIters: 100
episode: 991   score: -80.36921117745334   numIters: 100
episode: 992   score: -80.54831883813068   numIters: 100
episode: 993   score: -80.38888424191768   numIters: 100
episode: 994   score: -80.90333309799122   numIters: 100
episode: 995   score: -80.70467697793869   numIters: 100
episode: 996   score: -80.33557731943202   numIters: 100
episode: 997   score: -80.7077802915434   numIters: 100
episode: 998   score: -80.45160208345276   numIters: 100
episode: 999   score: -80.48703860765724   numIters: 100
Testing:
Testing results: score: -80.37173134279959   numIters: 100
episode: 1000   score: -80.50143207453375   numIters: 100
episode: 1001   score: -80.5704924394036   numIters: 100
episode: 1002   score: -80.64913018557141   numIters: 100
episode: 1003   score: -80.31332095196467   numIters: 100
episode: 1004   score: -79.96219685318945   numIters: 100
episode: 1005   score: -79.92585733852756   numIters: 100
episode: 1006   score: -80.12210563216112   numIters: 100
episode: 1007   score: -80.0626691021341   numIters: 100
episode: 1008   score: -80.17743940798283   numIters: 100
episode: 1009   score: -79.67710218974318   numIters: 100

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episode: 1011   score: -79.39635074794042  numIters:  100
episode: 1012   score: -79.84538488372907  numIters:  100
episode: 1013   score: -79.25303291330525  numIters:  100
episode: 1014   score: -79.45347277468105  numIters:  100
episode: 1015   score: -79.34880268552303  numIters:  100
episode: 1016   score: -78.94683048372117  numIters:  100
episode: 1017   score: -78.9125374809425  numIters:  100
episode: 1018   score: -78.69444431809191  numIters:  100
episode: 1019   score: -79.10426282971379  numIters:  100
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episode: 1022   score: -77.14453986299308  numIters:  100
episode: 1023   score: -78.3337537960261  numIters:  100
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episode: 1027   score: -73.61816170200751  numIters:  100
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episode: 1029   score: 64.31471048661933  numIters:  66
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episode: 1031   score: 64.05191905360812  numIters:  66
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episode: 1036   score: -72.53727914343168  numIters:  100
episode: 1037   score: -72.61474711628632  numIters:  100
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episode: 1039   score: -72.58321708470514  numIters:  100
episode: 1040   score: -72.48214878242452  numIters:  100
episode: 1041   score: -72.38766063505305  numIters:  100
episode: 1042   score: -72.32264273737209  numIters:  100
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episode: 1045   score: -73.56603144799766  numIters:  100
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episode: 1047   score: -72.31102681772958  numIters:  100
episode: 1048   score: -72.33539634461968  numIters:  100
episode: 1049   score: -72.34433437770626  numIters:  100
Testing:
Testing results:  score: -73.55126824370228  numIters:  100
episode: 1050   score: -73.50572947633377  numIters:  100
```

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episode: 1052   score: -73.50251743578809  numIters:  100
episode: 1053   score: -73.48589255350447  numIters:  100
episode: 1054   score: -72.28405178412038  numIters:  100
episode: 1055   score: -72.27511630290475  numIters:  100
episode: 1056   score: -72.34881730552497  numIters:  100
episode: 1057   score: -72.23676390718605  numIters:  100
episode: 1058   score: -72.3080704583665  numIters:  100
episode: 1059   score: -72.15825491097665  numIters:  100
episode: 1060   score: -73.29068135257941  numIters:  100
episode: 1061   score: -72.19657184525362  numIters:  100
episode: 1062   score: -72.15985017776764  numIters:  100
episode: 1063   score: -72.1653989043014  numIters:  100
episode: 1064   score: -72.11733472016716  numIters:  100
episode: 1065   score: -72.20005834861195  numIters:  100
episode: 1066   score: -72.15543600421528  numIters:  100
episode: 1067   score: -72.12442038861816  numIters:  100
episode: 1068   score: -72.04986595576335  numIters:  100
episode: 1069   score: -72.09575813352012  numIters:  100
episode: 1070   score: -71.94323314770902  numIters:  100
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episode: 1072   score: -71.98582456118758  numIters:  100
episode: 1073   score: -70.90917608183375  numIters:  100
episode: 1074   score: -71.38200580539687  numIters:  100
episode: 1075   score: -73.48401916612549  numIters:  100
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episode: 1077   score: -71.79516078668186  numIters:  100
episode: 1078   score: -71.92894559757622  numIters:  100
episode: 1079   score: -70.89111551679463  numIters:  100
episode: 1080   score: -71.58526403767426  numIters:  100
episode: 1081   score: -72.48255457286147  numIters:  100
episode: 1082   score: -72.86135259977145  numIters:  100
episode: 1083   score: -71.93797266665622  numIters:  100
episode: 1084   score: -70.90636667805195  numIters:  100
episode: 1085   score: -70.8815159820876  numIters:  100
episode: 1086   score: -71.7680230281449  numIters:  100
episode: 1087   score: -71.78575050279692  numIters:  100
episode: 1088   score: -71.83001418329663  numIters:  100
episode: 1089   score: -70.86905456133447  numIters:  100
episode: 1090   score: -70.77962439358629  numIters:  100
episode: 1091   score: -70.89343639849815  numIters:  100
episode: 1092   score: -70.65688652937315  numIters:  100
episode: 1093   score: -71.58957938473752  numIters:  100
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episode: 1095   score: -70.7217296022867 numIters: 100
episode: 1096   score: -72.55487735299269 numIters: 100
episode: 1097   score: -72.05209658237845 numIters: 100
episode: 1098   score: -70.87099227822604 numIters: 100
episode: 1099   score: -71.80022123861956 numIters: 100
Testing:
Testing results: score: -71.03822043840526 numIters: 100
episode: 1100   score: -71.04748712915327 numIters: 100
episode: 1101   score: -70.93673037188177 numIters: 100
episode: 1102   score: -71.00932579967497 numIters: 100
episode: 1103   score: -70.7522319343155 numIters: 100
episode: 1104   score: -71.87683471318361 numIters: 100
episode: 1105   score: -70.9363329005432 numIters: 100
episode: 1106   score: -71.99081979085373 numIters: 100
episode: 1107   score: -70.87480748990777 numIters: 100
episode: 1108   score: -71.45473403643378 numIters: 100
episode: 1109   score: -71.78013237555972 numIters: 100
episode: 1110   score: -70.75795891079754 numIters: 100
episode: 1111 score: -71.17961717922121 numIters: 100
episode: 1112   score: -72.48688060419786 numIters: 100
episode: 1113   score: -72.23814849924986 numIters: 100
episode: 1114   score: -73.47203636209595 numIters: 100
episode: 1115   score: -71.516912158849 numIters: 100
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episode: 1117   score: -72.74517694222557 numIters: 100
episode: 1118   score: -71.73410051459824 numIters: 100
episode: 1119   score: -72.7182134697001 numIters: 100
episode: 1120   score: -72.83694867472431 numIters: 100
episode: 1121   score: -71.85126519583886 numIters: 100
episode: 1122   score: -72.81251837206426 numIters: 100
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episode: 1124   score: -72.03858139352374 numIters: 100
episode: 1125   score: -72.97311806841525 numIters: 100
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episode: 1127   score: -73.00174744283494 numIters: 100
episode: 1128   score: -73.0167274272619 numIters: 100
episode: 1129   score: -72.06422492900428 numIters: 100
episode: 1130   score: -71.20908572761508 numIters: 100
episode: 1131   score: -72.13416985235732 numIters: 100
episode: 1132   score: -72.16584373650986 numIters: 100
episode: 1133   score: -72.13502285032264 numIters: 100
episode: 1134   score: -72.23992568479781 numIters: 100

episode: 1135   score: -72.22302753698112 numIters: 100
episode: 1136   score: -72.2902483381071 numIters: 100
episode: 1137   score: -72.27357574287342 numIters: 100
episode: 1138   score: -72.28370939727473 numIters: 100
episode: 1139   score: -71.27030444147897 numIters: 100
episode: 1140   score: -72.35509948707049 numIters: 100
episode: 1141   score: -71.32892047340829 numIters: 100
episode: 1142   score: -71.36571825338238 numIters: 100
episode: 1143   score: -72.29474461650221 numIters: 100
episode: 1144   score: -72.31545309717737 numIters: 100
episode: 1145   score: -71.5742433320309 numIters: 100
episode: 1146   score: -73.31400696076888 numIters: 100
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episode: 1148   score: -71.51306380062726 numIters: 100
episode: 1149   score: -73.27637976534035 numIters: 100
Testing:
Testing results: score: -73.1695019591916 numIters: 100
episode: 1150   score: -73.17976030986023 numIters: 100
episode: 1151   score: -73.30214458980979 numIters: 100
episode: 1152   score: -73.24780513969291 numIters: 100
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episode: 1154   score: -73.30818011785627 numIters: 100
episode: 1155   score: -73.18942944126961 numIters: 100
episode: 1156   score: -73.45345151064069 numIters: 100
episode: 1157   score: -72.31359468457131 numIters: 100
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episode: 1159   score: -73.45695885769801 numIters: 100
episode: 1160   score: -72.50642516377161 numIters: 100
episode: 1161   score: -72.39426183916812 numIters: 100
episode: 1162   score: -72.44196404800486 numIters: 100
episode: 1163   score: -72.57181692415423 numIters: 100
episode: 1164   score: -71.44972058586323 numIters: 100
episode: 1165   score: -71.6074203657637 numIters: 100
episode: 1166   score: -72.55047424245876 numIters: 100
episode: 1167   score: -71.54895909608312 numIters: 100
episode: 1168   score: -70.61894897252854 numIters: 100
episode: 1169   score: -70.77980001647879 numIters: 100
episode: 1170   score: -70.70755687724423 numIters: 100
episode: 1171   score: -70.71901935056852 numIters: 100
episode: 1172   score: -69.89932120448333 numIters: 100
episode: 1173   score: -69.95453468596695 numIters: 100
episode: 1174   score: -69.99125502349774 numIters: 100
episode: 1175   score: -69.83521193988292 numIters: 100

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episode: 1177   score: -69.90140287506875  numIters:  100
episode: 1178   score: -70.07032994417955  numIters:  100
episode: 1179   score: -70.69946038698382  numIters:  100
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episode: 1182   score: -70.80525123576807  numIters:  100
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episode: 1187   score: -72.36312325397184  numIters:  100
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episode: 1189   score: -74.25834278286457  numIters:  100
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episode: 1198   score: -71.65814846735944  numIters:  100
episode: 1199   score: -70.69498783624822  numIters:  100
Testing:
Testing results:  score: -70.73841722150357  numIters:  100
episode: 1200   score: -70.67519048743425  numIters:  100
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episode: 1202   score: -70.87064198123863  numIters:  100
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episode: 1214   score: -71.80868090665437  numIters:  100
episode: 1215   score: -71.62394865445546  numIters:  100
episode: 1216   score: -71.78481833278121  numIters:  100
```

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episode: 1223   score: -71.71474264576356  numIters:  100
episode: 1224   score: -71.72556317286129  numIters:  100
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episode: 1233   score: -72.64005383133258  numIters:  100
episode: 1234   score: -72.71973363412596  numIters:  100
episode: 1235   score: -72.6130974992142  numIters:  100
episode: 1236   score: -71.77269606741459  numIters:  100
episode: 1237   score: -72.620752982001  numIters:  100
episode: 1238   score: -72.67865980778181  numIters:  100
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episode: 1246   score: -73.59598892671829  numIters:  100
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episode: 1248   score: -72.7441650155024  numIters:  100
episode: 1249   score: -73.54812792783198  numIters:  100
Testing:
Testing results:  score: -72.53869749089132  numIters:  100
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episode: 1251   score: -72.58950387208263  numIters:  100
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episode: 1253   score: -71.70469393751873  numIters:  100
episode: 1254   score: -71.72730435383772  numIters:  100
episode: 1255   score: -71.71676184627556  numIters:  100
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episode: 1257   score: -71.6811747119705  numIters:  100
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episode: 1264   score: -71.64782895977218  numIters:  100
episode: 1265   score: -71.72453275590958  numIters:  100
episode: 1266   score: -71.77703218039072  numIters:  100
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episode: 1268   score: -72.56964704917934  numIters:  100
episode: 1269   score: -72.71529515718971  numIters:  100
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episode: 1271   score: -73.59793907141378  numIters:  100
episode: 1272   score: -73.59800791894138  numIters:  100
episode: 1273   score: -72.65508643409912  numIters:  100
episode: 1274   score: -74.50872243190982  numIters:  100
episode: 1275   score: -73.59912404713496  numIters:  100
episode: 1276   score: -73.5842249258653  numIters:  100
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episode: 1283   score: -72.66502759580578  numIters:  100
episode: 1284   score: -73.47698215877506  numIters:  100
episode: 1285   score: -72.52269758704422  numIters:  100
episode: 1286   score: -72.45654870321981  numIters:  100
episode: 1287   score: -72.58248796212852  numIters:  100
episode: 1288   score: -72.53337241906867  numIters:  100
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episode: 1290   score: -73.65490953923702  numIters:  100
episode: 1291   score: -73.6116358979513  numIters:  100
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episode: 1293   score: -72.61928696519318  numIters:  100
episode: 1294   score: -71.611864485576  numIters:  100
episode: 1295   score: -71.66083786837191  numIters:  100
episode: 1296   score: -71.6299468900804  numIters:  100
episode: 1297   score: -71.69986173071662  numIters:  100
episode: 1298   score: -71.56922195686315  numIters:  100
episode: 1299   score: -72.59123329540381  numIters:  100
Testing:
```

```
Testing results:  score: -71.5560580282764  numIters:  100
episode: 1300   score: -71.57229060471249  numIters:  100
episode: 1301   score: -71.53952653840847  numIters:  100
episode: 1302   score: -71.61690872038145  numIters:  100
episode: 1303   score: -72.59091098178992  numIters:  100
episode: 1304   score: -73.57020183925798  numIters:  100
episode: 1305   score: -73.65846225150396  numIters:  100
episode: 1306   score: -73.56769362582678  numIters:  100
episode: 1307   score: -70.75645383343158  numIters:  100
episode: 1308   score: -71.52608710335547  numIters:  100
episode: 1309   score: -72.62814098403231  numIters:  100
episode: 1310   score: -72.58678896775723  numIters:  100
episode: 1311   score: -72.60703678265858  numIters:  100
episode: 1312   score: -73.65953515165099  numIters:  100
episode: 1313   score: -72.55274709262989  numIters:  100
episode: 1314   score: -72.54802195310211  numIters:  100
episode: 1315   score: -72.57818188112533  numIters:  100
episode: 1316   score: -74.50530743277497  numIters:  100
episode: 1317   score: -73.60275648569922  numIters:  100
episode: 1318   score: -73.62864188204155  numIters:  100
episode: 1319   score: -73.65804725118237  numIters:  100
episode: 1320   score: -73.53382424665332  numIters:  100
episode: 1321   score: -73.54106835379599  numIters:  100
episode: 1322   score: -73.6207028993102  numIters:  100
episode: 1323   score: -71.6588949345772  numIters:  100
episode: 1324   score: -71.56913365942052  numIters:  100
episode: 1325   score: -71.61701226683152  numIters:  100
episode: 1326   score: -71.58489459703335  numIters:  100
episode: 1327   score: -71.68176266039663  numIters:  100
episode: 1328   score: -71.62732765004162  numIters:  100
episode: 1329   score: -71.49629878577564  numIters:  100
episode: 1330   score: -71.61839488479791  numIters:  100
episode: 1331   score: -72.61092454805917  numIters:  100
episode: 1332   score: -71.56167515539758  numIters:  100
episode: 1333   score: -71.52367908502339  numIters:  100
episode: 1334   score: -71.56969762888885  numIters:  100
episode: 1335   score: -72.5778986466726  numIters:  100
episode: 1336   score: -72.57908418726095  numIters:  100
episode: 1337   score: -73.39896118260575  numIters:  100
episode: 1338   score: -72.62860910195711  numIters:  100
episode: 1339   score: -73.47959516888015  numIters:  100
episode: 1340   score: -74.55941870202507  numIters:  100
episode: 1341   score: -73.43159296441583  numIters:  100
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episode: 1343   score: -73.40406305872447   numIters: 100
episode: 1344   score: -73.43426124389583   numIters: 100
episode: 1345   score: -73.51402885043895   numIters: 100
episode: 1346   score: -73.4986821748834   numIters: 100
episode: 1347   score: -73.55036716045801   numIters: 100
episode: 1348   score: -72.45390229454026   numIters: 100
episode: 1349   score: -72.41552295990002   numIters: 100
Testing:
Testing results: score: -72.45411734019869   numIters: 100
episode: 1350   score: -72.42383413200106   numIters: 100
episode: 1351   score: -72.50805720896683   numIters: 100
episode: 1352   score: -72.48711553791007   numIters: 100
episode: 1353   score: -73.4935517050632   numIters: 100
episode: 1354   score: -72.44611573721869   numIters: 100
episode: 1355   score: -72.504332169714   numIters: 100
episode: 1356   score: -72.51707694515393   numIters: 100
episode: 1357   score: -73.4889637134032   numIters: 100
episode: 1358   score: -73.5197529857802   numIters: 100
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episode: 1362   score: -73.47548254086743   numIters: 100
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episode: 1364   score: -73.44029416854573   numIters: 100
episode: 1365   score: -73.45093787513983   numIters: 100
episode: 1366   score: -73.51719778079303   numIters: 100
episode: 1367   score: -73.43714240714571   numIters: 100
episode: 1368   score: -73.45535617491839   numIters: 100
episode: 1369   score: -73.46846727412309   numIters: 100
episode: 1370   score: -73.50709882451399   numIters: 100
episode: 1371   score: -74.63692856159088   numIters: 100
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episode: 1375   score: -73.54395001066209   numIters: 100
episode: 1376   score: -73.5076990716978   numIters: 100
episode: 1377   score: -72.387139809673   numIters: 100
episode: 1378   score: -72.37154051171062   numIters: 100
episode: 1379   score: -72.42273294716335   numIters: 100
episode: 1380   score: -72.42383127857505   numIters: 100
episode: 1381   score: -71.43835729985011   numIters: 100
episode: 1382   score: -72.42721483870231   numIters: 100

episode: 1383   score: -73.47256938815286 numIters: 100
episode: 1384   score: -73.40719304328336 numIters: 100
episode: 1385   score: -73.41468708088792 numIters: 100
episode: 1386   score: -73.36263949977466 numIters: 100
episode: 1387   score: -73.38504594585973 numIters: 100
episode: 1388   score: -73.42801250231221 numIters: 100
episode: 1389   score: -73.38335040381855 numIters: 100
episode: 1390   score: -73.4094622055011 numIters: 100
episode: 1391   score: -73.353950205602 numIters: 100
episode: 1392   score: -73.4356354257438 numIters: 100
episode: 1393   score: -73.29607831372974 numIters: 100
episode: 1394   score: -73.51626090137229 numIters: 100
episode: 1395   score: -74.48659893377425 numIters: 100
episode: 1396   score: -73.37508351075549 numIters: 100
episode: 1397   score: -73.29639987443036 numIters: 100
episode: 1398   score: -73.30516923109576 numIters: 100
episode: 1399   score: -74.40424200925966 numIters: 100
Testing:
Testing results: score: -72.30487456191788 numIters: 100
episode: 1400   score: -73.360367969735 numIters: 100
episode: 1401   score: -74.43569214901457 numIters: 100
episode: 1402   score: -74.55469750197803 numIters: 100
episode: 1403   score: -75.63133233255698 numIters: 100
episode: 1404   score: -73.34150213405597 numIters: 100
episode: 1405   score: -74.39051181634417 numIters: 100
episode: 1406   score: -74.43805899571487 numIters: 100
episode: 1407   score: -75.47187322501604 numIters: 100
episode: 1408   score: -74.28632435681602 numIters: 100
episode: 1409   score: -75.57119055730085 numIters: 100
episode: 1410   score: -74.42754056233932 numIters: 100
episode: 1411   score: -74.41937681596048 numIters: 100
episode: 1412   score: -74.56311101662659 numIters: 100
episode: 1413   score: -73.28859682512926 numIters: 100
episode: 1414   score: -73.28540004089133 numIters: 100
episode: 1415   score: -73.41132112909531 numIters: 100
episode: 1416   score: -73.33886562870532 numIters: 100
episode: 1417   score: -73.34719017359613 numIters: 100
episode: 1418   score: -73.3453793640311 numIters: 100
episode: 1419   score: -73.28471869603605 numIters: 100
episode: 1420   score: -73.32267152529171 numIters: 100
episode: 1421   score: -73.34081713518503 numIters: 100
episode: 1422   score: -73.29322539824135 numIters: 100
episode: 1423   score: -73.32711464000575 numIters: 100

episode: 1424   score: -73.27763373980481 numIters: 100
episode: 1425   score: -73.32971429480357 numIters: 100
episode: 1426   score: -73.30327540407508 numIters: 100
episode: 1427   score: -73.34912849677744 numIters: 100
episode: 1428   score: -73.29723386276663 numIters: 100
episode: 1429   score: -73.30390467027767 numIters: 100
episode: 1430   score: -73.3030297762022 numIters: 100
episode: 1431   score: -73.29088322212375 numIters: 100
episode: 1432   score: -73.28791959730266 numIters: 100
episode: 1433   score: -73.39408958249273 numIters: 100
episode: 1434   score: -73.28974721160027 numIters: 100
episode: 1435   score: -73.33758157388928 numIters: 100
episode: 1436   score: -74.45101702970933 numIters: 100
episode: 1437   score: -74.44356317931309 numIters: 100
episode: 1438   score: -75.50948574430501 numIters: 100
episode: 1439   score: -74.46301504845384 numIters: 100
episode: 1440   score: -74.51456255541386 numIters: 100
episode: 1441   score: -74.46463503113362 numIters: 100
episode: 1442   score: -74.45446022974343 numIters: 100
episode: 1443   score: -74.44361078229153 numIters: 100
episode: 1444   score: -74.32379848730875 numIters: 100
episode: 1445   score: -74.44054883854331 numIters: 100
episode: 1446   score: -74.3181666561414 numIters: 100
episode: 1447   score: -74.4082130891844 numIters: 100
episode: 1448   score: -74.43352324077104 numIters: 100
episode: 1449   score: -74.41732361631169 numIters: 100
Testing:
Testing results: score: -74.5110774385249 numIters: 100
episode: 1450   score: -74.500955559446 numIters: 100
episode: 1451   score: -74.51222911526824 numIters: 100
episode: 1452   score: -74.38116278457193 numIters: 100
episode: 1453   score: -74.35290857570828 numIters: 100
episode: 1454   score: -74.4115587423684 numIters: 100
episode: 1455   score: -74.34940406056171 numIters: 100
episode: 1456   score: -75.60169251979673 numIters: 100
episode: 1457   score: -74.3381777163037 numIters: 100
episode: 1458   score: -74.3188868822425 numIters: 100
episode: 1459   score: -74.46907278302152 numIters: 100
episode: 1460   score: -74.50034777265738 numIters: 100
episode: 1461   score: -74.47896176362644 numIters: 100
episode: 1462   score: -73.35988508312992 numIters: 100
episode: 1463   score: -73.30392244004236 numIters: 100
episode: 1464   score: -73.29152025857296 numIters: 100

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episode: 1465   score: -73.34323755578133  numIters:  100
episode: 1466   score: -73.2361218677138  numIters:  100
episode: 1467   score: -73.27242881981105  numIters:  100
episode: 1468   score: -73.22893949580488  numIters:  100
episode: 1469   score: -73.25452636871461  numIters:  100
episode: 1470   score: -73.22722157983472  numIters:  100
episode: 1471   score: -73.24192086502899  numIters:  100
episode: 1472   score: -73.20540900340146  numIters:  100
episode: 1473   score: -74.40800761919212  numIters:  100
episode: 1474   score: -74.44478622201078  numIters:  100
episode: 1475   score: -73.29908120017255  numIters:  100
episode: 1476   score: -74.42132764100259  numIters:  100
episode: 1477   score: -74.45227967883274  numIters:  100
episode: 1478   score: -73.2671319238753  numIters:  100
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episode: 1482   score: -74.45989354197211  numIters:  100
episode: 1483   score: -73.23101956420338  numIters:  100
episode: 1484   score: -73.23946030880052  numIters:  100
episode: 1485   score: -73.2657060855535  numIters:  100
episode: 1486   score: -74.41982471511389  numIters:  100
episode: 1487   score: -73.29792891480848  numIters:  100
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episode: 1489   score: -73.26322741689123  numIters:  100
episode: 1490   score: -74.29778149925588  numIters:  100
episode: 1491   score: -74.36456039435765  numIters:  100
episode: 1492   score: -75.48504903191042  numIters:  100
episode: 1493   score: -75.5794318828015  numIters:  100
episode: 1494   score: -74.30769626457194  numIters:  100
episode: 1495   score: -74.31509299804395  numIters:  100
episode: 1496   score: -74.38289991533738  numIters:  100
episode: 1497   score: -74.56095587926959  numIters:  100
episode: 1498   score: -75.60513801979536  numIters:  100
episode: 1499   score: -75.33450024440909  numIters:  100
Testing:
Testing results:  score: -75.33193715583933  numIters:  100
episode: 1500   score: -75.35614272978047  numIters:  100
episode: 1501   score: -74.32099049326824  numIters:  100
episode: 1502   score: -74.32177210590397  numIters:  100
episode: 1503   score: -74.41221638286156  numIters:  100
episode: 1504   score: -74.37653349677683  numIters:  100
episode: 1505   score: -74.41738478470135  numIters:  100
```

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episode: 1507   score: -74.3758450193996  numIters:  100
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episode: 1509   score: -74.49200377171461  numIters:  100
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episode: 1511   score: -75.39796116378268  numIters:  100
episode: 1512   score: -74.20489331218843  numIters:  100
episode: 1513   score: -75.4732250657134  numIters:  100
episode: 1514   score: -75.47420637722371  numIters:  100
episode: 1515   score: -75.56622617947204  numIters:  100
episode: 1516   score: -75.61366219445047  numIters:  100
episode: 1517   score: -75.53115034349521  numIters:  100
episode: 1518   score: -74.33840608092379  numIters:  100
episode: 1519   score: -74.38838540258541  numIters:  100
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episode: 1521   score: -74.31316972090279  numIters:  100
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episode: 1523   score: -74.25186246032456  numIters:  100
episode: 1524   score: -74.37377546693325  numIters:  100
episode: 1525   score: -74.31743047025412  numIters:  100
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episode: 1534   score: -74.19673324451716  numIters:  100
episode: 1535   score: -75.43499994171749  numIters:  100
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episode: 1538   score: -74.17454148272982  numIters:  100
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episode: 1545   score: -75.52456507470889  numIters:  100
episode: 1546   score: -74.18841511147663  numIters:  100
episode: 1547   score: -75.44223931791902  numIters:  100
episode: 1548   score: -74.16968309482442  numIters:  100
```

episode: 1549   score: -75.4183367101732 numIters: 100
Testing:
Testing results: score: -75.36318791955816 numIters: 100
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episode: 1551   score: -75.39468346000321 numIters: 100
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episode: 1553   score: -74.17229427805984 numIters: 100
episode: 1554   score: -75.44912903971704 numIters: 100
episode: 1555   score: -75.37007791789236 numIters: 100
episode: 1556   score: -75.39442850733212 numIters: 100
episode: 1557   score: -75.29536903639453 numIters: 100
episode: 1558   score: -75.34341268637209 numIters: 100
episode: 1559   score: -75.46912117881939 numIters: 100
episode: 1560   score: -76.67369253266166 numIters: 100
episode: 1561   score: -76.63776985445158 numIters: 100
episode: 1562   score: -75.33185987844327 numIters: 100
episode: 1563   score: -75.36919424399994 numIters: 100
episode: 1564   score: -74.19138034472911 numIters: 100
episode: 1565   score: -75.42679109749066 numIters: 100
episode: 1566   score: -75.36351065278413 numIters: 100
episode: 1567   score: -75.35987020187174 numIters: 100
episode: 1568   score: -75.39811628545435 numIters: 100
episode: 1569   score: -75.3535457336387 numIters: 100
episode: 1570   score: -75.37327640080824 numIters: 100
episode: 1571   score: -75.44731858865403 numIters: 100
episode: 1572   score: -75.45183667375247 numIters: 100
episode: 1573   score: -75.36255310384959 numIters: 100
episode: 1574   score: -75.31984689967545 numIters: 100
episode: 1575   score: -76.57902154198446 numIters: 100
episode: 1576   score: -76.47212730386822 numIters: 100
episode: 1577   score: -76.59327547420381 numIters: 100
episode: 1578   score: -76.52820736312043 numIters: 100
episode: 1579   score: -76.6310086639242 numIters: 100
episode: 1580   score: -76.60253465869819 numIters: 100
episode: 1581   score: -76.6050331856243 numIters: 100
episode: 1582   score: -76.6100279256367 numIters: 100
episode: 1583   score: -75.31526739541829 numIters: 100
episode: 1584   score: -75.42123961975958 numIters: 100
episode: 1585   score: -76.62786889489583 numIters: 100
episode: 1586   score: -75.15934216674681 numIters: 100
episode: 1587   score: -75.23530241619466 numIters: 100
episode: 1588   score: -75.22004143894216 numIters: 100
episode: 1589   score: -75.2877219994905 numIters: 100

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episode: 1590   score: -75.31100765832687  numIters:  100
episode: 1591   score: -75.29496009374712  numIters:  100
episode: 1592   score: -75.31646455036459  numIters:  100
episode: 1593   score: -75.32664563035621  numIters:  100
episode: 1594   score: -75.32897167573444  numIters:  100
episode: 1595   score: -75.2971827084577  numIters:  100
episode: 1596   score: -75.36185301395184  numIters:  100
episode: 1597   score: -75.35539982059235  numIters:  100
episode: 1598   score: -75.31142608574021  numIters:  100
episode: 1599   score: -75.39326940594766  numIters:  100
Testing:
Testing results:  score: -75.32482833010813  numIters:  100
episode: 1600   score: -75.29275027259168  numIters:  100
episode: 1601   score: -75.40688037871091  numIters:  100
episode: 1602   score: -75.41582796583674  numIters:  100
episode: 1603   score: -75.36735541712909  numIters:  100
episode: 1604   score: -75.35021869252952  numIters:  100
episode: 1605   score: -75.4149024637361  numIters:  100
episode: 1606   score: -74.10264367842156  numIters:  100
episode: 1607   score: -75.3117488477736  numIters:  100
episode: 1608   score: -75.26738136280073  numIters:  100
episode: 1609   score: -75.37237915076064  numIters:  100
episode: 1610   score: -75.33774466535263  numIters:  100
episode: 1611   score: -75.33165968467324  numIters:  100
episode: 1612   score: -75.35259318358649  numIters:  100
episode: 1613   score: -75.29288248658449  numIters:  100
episode: 1614   score: -75.30053856318662  numIters:  100
episode: 1615   score: -75.40235519987537  numIters:  100
episode: 1616   score: -75.27907924602903  numIters:  100
episode: 1617   score: -76.63022928907539  numIters:  100
episode: 1618   score: -75.23262013898604  numIters:  100
episode: 1619   score: -75.34791959102947  numIters:  100
episode: 1620   score: -76.64991904112138  numIters:  100
episode: 1621   score: -75.24924081702612  numIters:  100
episode: 1622   score: -75.39101787029789  numIters:  100
episode: 1623   score: -76.77339694508919  numIters:  100
episode: 1624   score: -76.64824768869832  numIters:  100
episode: 1625   score: -75.23501520658822  numIters:  100
episode: 1626   score: -75.22651120267001  numIters:  100
episode: 1627   score: -75.26770285844057  numIters:  100
episode: 1628   score: -75.25420750977463  numIters:  100
episode: 1629   score: -76.70050149315891  numIters:  100
episode: 1630   score: -75.20929297106903  numIters:  100
```

episode: 1631   score: -75.26556987644015 numIters: 100
episode: 1632   score: -75.28031809459094 numIters: 100
episode: 1633   score: -75.1755780155573 numIters: 100
episode: 1634   score: -75.29628404591367 numIters: 100
episode: 1635   score: -75.29612386393214 numIters: 100
episode: 1636   score: -75.28219717417092 numIters: 100
episode: 1637   score: -75.23908570550275 numIters: 100
episode: 1638   score: -75.30260784213554 numIters: 100
episode: 1639   score: -76.56376745495457 numIters: 100
episode: 1640   score: -75.180895951551 numIters: 100
episode: 1641   score: -75.2248706207997 numIters: 100
episode: 1642   score: -75.29028983389428 numIters: 100
episode: 1643   score: -75.24099550370828 numIters: 100
episode: 1644   score: -75.25037739810274 numIters: 100
episode: 1645   score: -75.3116488147661 numIters: 100
episode: 1646   score: -75.29988300442072 numIters: 100
episode: 1647   score: -75.33446217123961 numIters: 100
episode: 1648   score: -75.22568946906411 numIters: 100
episode: 1649   score: -75.2688011111256 numIters: 100
Testing:
Testing results: score: -75.1754512483205 numIters: 100
episode: 1650   score: -75.16992158665849 numIters: 100
episode: 1651   score: -75.29551668869593 numIters: 100
episode: 1652   score: -76.64334293871255 numIters: 100
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episode: 1655   score: -76.64112227728117 numIters: 100
episode: 1656   score: -75.29557384641303 numIters: 100
episode: 1657   score: -76.69641027060295 numIters: 100
episode: 1658   score: -76.67681174808976 numIters: 100
episode: 1659   score: -76.75046530223705 numIters: 100
episode: 1660   score: -76.60787592353736 numIters: 100
episode: 1661   score: -76.73752039253256 numIters: 100
episode: 1662   score: -76.69662677835896 numIters: 100
episode: 1663   score: -75.30657092059678 numIters: 100
episode: 1664   score: -78.21878388905071 numIters: 100
episode: 1665   score: -76.42736603055877 numIters: 100
episode: 1666   score: -76.47871946947386 numIters: 100
episode: 1667   score: -76.50786209754169 numIters: 100
episode: 1668   score: -76.56884735980579 numIters: 100
episode: 1669   score: -76.57709420017463 numIters: 100
episode: 1670   score: -76.65299658516814 numIters: 100
episode: 1671   score: -76.55945244934507 numIters: 100

episode: 1672   score: -76.57560644350986 numIters: 100
episode: 1673   score: -76.58584892030409 numIters: 100
episode: 1674   score: -76.59753694690582 numIters: 100
episode: 1675   score: -76.5855954556996 numIters: 100
episode: 1676   score: -76.69273958235277 numIters: 100
episode: 1677   score: -76.69518580063495 numIters: 100
episode: 1678   score: -76.8035171584178 numIters: 100
episode: 1679   score: -76.72610843180057 numIters: 100
episode: 1680   score: -76.72586996989196 numIters: 100
episode: 1681   score: -76.71847742293868 numIters: 100
episode: 1682   score: -76.84662272114542 numIters: 100
episode: 1683   score: -75.38278936416302 numIters: 100
episode: 1684   score: -76.81356783907204 numIters: 100
episode: 1685   score: -76.5008536275462 numIters: 100
episode: 1686   score: -75.13901321970621 numIters: 100
episode: 1687   score: -75.10539360997662 numIters: 100
episode: 1688   score: -76.5117771121895 numIters: 100
episode: 1689   score: -76.58957539042605 numIters: 100
episode: 1690   score: -76.68049168269266 numIters: 100
episode: 1691   score: -76.64626720174026 numIters: 100
episode: 1692   score: -76.71711722728215 numIters: 100
episode: 1693   score: -76.61160376185516 numIters: 100
episode: 1694   score: -76.71171690263542 numIters: 100
episode: 1695   score: -76.58685456084366 numIters: 100
episode: 1696   score: -76.75905275509079 numIters: 100
episode: 1697   score: -76.62162349013006 numIters: 100
episode: 1698   score: -76.78752060047904 numIters: 100
episode: 1699   score: -76.79879938562087 numIters: 100
Testing:
Testing results: score: -76.91143087069078 numIters: 100
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episode: 1701   score: -76.68920847944887 numIters: 100
episode: 1702   score: -76.91064907382041 numIters: 100
episode: 1703   score: -76.75133987828714 numIters: 100
episode: 1704   score: -76.8407740957599 numIters: 100
episode: 1705   score: -76.76487612634912 numIters: 100
episode: 1706   score: -76.91756962276983 numIters: 100
episode: 1707   score: -76.78863756772641 numIters: 100
episode: 1708   score: -75.41567461557797 numIters: 100
episode: 1709   score: -76.88555750161389 numIters: 100
episode: 1710   score: -76.87029871484141 numIters: 100
episode: 1711   score: -76.87296212313987 numIters: 100
episode: 1712   score: -76.62684302631067 numIters: 100

episode: 1713   score: -76.95793711243206 numIters: 100
episode: 1714   score: -76.92946982856802 numIters: 100
episode: 1715   score: -76.87446806453362 numIters: 100
episode: 1716   score: -76.96246944048512 numIters: 100
episode: 1717   score: -76.83750671885782 numIters: 100
episode: 1718   score: -76.95335542860276 numIters: 100
episode: 1719   score: -76.87262612357748 numIters: 100
episode: 1720   score: 74.6024353113009 numIters: 39
episode: 1721   score: 67.57704574020369 numIters: 62
episode: 1722   score: 67.81568965172376 numIters: 62
episode: 1723   score: 67.81378031476696 numIters: 62
episode: 1724   score: 74.91071501143509 numIters: 39
episode: 1725   score: 75.14141807238323 numIters: 38
episode: 1726   score: 74.91834630409747 numIters: 39
episode: 1727   score: 74.86291315088926 numIters: 39
episode: 1728   score: 74.9273797351092 numIters: 39
episode: 1729   score: 74.8578984457175 numIters: 39
episode: 1730   score: 74.92295340811783 numIters: 39
episode: 1731   score: 68.02251256225318 numIters: 62
episode: 1732   score: 74.94168148748496 numIters: 39
episode: 1733   score: 74.93673437223994 numIters: 39
episode: 1734   score: 74.8902363236964 numIters: 39
episode: 1735   score: 74.89622969625289 numIters: 39
episode: 1736   score: 74.98094856570972 numIters: 39
episode: 1737   score: 74.92745061695406 numIters: 39
episode: 1738   score: 74.82286701274359 numIters: 39
episode: 1739   score: 74.8866488155166 numIters: 39
episode: 1740   score: 74.92040905104787 numIters: 39
episode: 1741   score: 74.97091198273066 numIters: 39
episode: 1742   score: 74.80245368205547 numIters: 39
episode: 1743   score: 74.73286985925782 numIters: 39
episode: 1744   score: 74.88734272349372 numIters: 39
episode: 1745   score: 74.83310779156888 numIters: 39
episode: 1746   score: 74.83170429505995 numIters: 39
episode: 1747   score: 74.84246457540709 numIters: 39
episode: 1748   score: 74.89796010738628 numIters: 39
episode: 1749   score: 74.99707645341937 numIters: 39
Testing:
Testing results: score: 74.87103633720025 numIters: 39
episode: 1750   score: 74.85669041123826 numIters: 39
episode: 1751   score: 74.85914307797378 numIters: 39
episode: 1752   score: 74.87176397563026 numIters: 39
episode: 1753   score: 74.83147719468433 numIters: 39

```
episode: 1754   score: 74.89990578333813   numIters:  39
episode: 1755   score: 74.89226499380761   numIters:  39
episode: 1756   score: 74.8278258526985   numIters:  39
episode: 1757   score: 74.85192801721439   numIters:  39
episode: 1758   score: 74.7956164515453   numIters:  39
episode: 1759   score: 74.78997068128646   numIters:  39
episode: 1760   score: 74.8635784723196   numIters:  39
episode: 1761   score: 74.89645160975007   numIters:  39
episode: 1762   score: 74.83750586040195   numIters:  39
episode: 1763   score: 74.74749994752824   numIters:  39
episode: 1764   score: 74.8902953974991   numIters:  39
episode: 1765   score: 74.87734512276398   numIters:  39
episode: 1766   score: 74.9010010952412   numIters:  39
episode: 1767   score: 74.89864694230936   numIters:  39
episode: 1768   score: 74.9561785395495   numIters:  39
episode: 1769   score: 74.86984756111289   numIters:  39
episode: 1770   score: 74.80079510795184   numIters:  39
episode: 1771   score: 74.93469061429005   numIters:  39
episode: 1772   score: 74.90187285992354   numIters:  39
episode: 1773   score: 74.86063323202517   numIters:  39
episode: 1774   score: 74.89878584684323   numIters:  39
episode: 1775   score: 74.88155492834036   numIters:  39
episode: 1776   score: 74.97963552550269   numIters:  39
episode: 1777   score: 74.96088700555158   numIters:  39
episode: 1778   score: 74.83433395138269   numIters:  39
episode: 1779   score: 74.863286301931   numIters:  39
episode: 1780   score: 74.90972143331045   numIters:  39
episode: 1781   score: 68.12567967491037   numIters:  62
episode: 1782   score: 74.90688412570948   numIters:  39
episode: 1783   score: 74.9058523078576   numIters:  39
episode: 1784   score: 74.8734787946015   numIters:  39
episode: 1785   score: 74.98537867865177   numIters:  39
episode: 1786   score: 74.90922611635642   numIters:  39
episode: 1787   score: 74.9731121619601   numIters:  39
episode: 1788   score: 74.89905284804905   numIters:  39
episode: 1789   score: 74.95970883511836   numIters:  39
episode: 1790   score: 74.96962667749736   numIters:  39
episode: 1791   score: 74.89889278031751   numIters:  39
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episode: 1793   score: 74.91399378472875   numIters:  39
episode: 1794   score: 74.92319119979958   numIters:  39
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```

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episode: 1798   score: 74.92861146332774 numIters: 39
episode: 1799   score: 74.88603218479068 numIters: 39
Testing:
Testing results: score: 74.91725473551503 numIters: 39
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episode: 1801   score: 74.99758308937444 numIters: 39
episode: 1802   score: 75.00070219700967 numIters: 39
episode: 1803   score: 74.93460812654344 numIters: 39
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episode: 1805   score: 74.98101224867739 numIters: 39
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episode: 1807   score: 74.93635322559253 numIters: 39
episode: 1808   score: 74.85649454588088 numIters: 39
episode: 1809   score: 74.88293341283689 numIters: 39
episode: 1810   score: 74.93868664785526 numIters: 39
episode: 1811   score: 74.88230072724089 numIters: 39
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episode: 1813   score: -79.08293094314058 numIters: 100
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episode: 1815   score: 74.97343747030459 numIters: 39
episode: 1816   score: 75.36037475687102 numIters: 38
episode: 1817   score: 75.4504568330491 numIters: 38
episode: 1818   score: 75.46421409147982 numIters: 38
episode: 1819   score: 75.57882148847914 numIters: 38
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episode: 1822   score: 75.5839156044953 numIters: 38
episode: 1823   score: 75.55507978391684 numIters: 38
episode: 1824   score: 75.52480315628006 numIters: 38
episode: 1825   score: 75.53461435165092 numIters: 38
episode: 1826   score: 75.51806684812817 numIters: 38
episode: 1827   score: 75.59635232956944 numIters: 38
episode: 1828   score: 75.44308167198258 numIters: 38
episode: 1829   score: 75.54962065672915 numIters: 38
episode: 1830   score: 75.55521992913074 numIters: 38
episode: 1831   score: 75.51554717194122 numIters: 38
episode: 1832   score: 75.412034869881 numIters: 38
episode: 1833   score: 75.4595594639916 numIters: 38
episode: 1834   score: 75.45512500322333 numIters: 38
episode: 1835   score: 75.38114983056823 numIters: 38
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episode: 1837   score: 75.53096006576753 numIters: 38

episode: 1838   score: 75.51893933292416 numIters: 38
episode: 1839   score: 75.43502664777398 numIters: 38
episode: 1840   score: 75.42757006717449 numIters: 38
episode: 1841   score: 75.48837726574314 numIters: 38
episode: 1842   score: 75.31364824955102 numIters: 38
episode: 1843   score: 75.42123842889947 numIters: 38
episode: 1844   score: 75.38913718711089 numIters: 38
episode: 1845   score: 75.39539713705057 numIters: 38
episode: 1846   score: 75.32359423894485 numIters: 38
episode: 1847   score: 75.3383516934745 numIters: 38
episode: 1848   score: 75.2836073096138 numIters: 38
episode: 1849   score: 75.2823248144093 numIters: 38
Testing:
Testing results: score: 75.30830130683978 numIters: 38
episode: 1850   score: 75.21475502651921 numIters: 38
episode: 1851   score: 75.19393582585673 numIters: 38
episode: 1852   score: 75.34694344369998 numIters: 38
episode: 1853   score: 75.27231111020902 numIters: 38
episode: 1854   score: 75.24886035141512 numIters: 38
episode: 1855   score: 75.22708270832874 numIters: 38
episode: 1856   score: 75.21627584865932 numIters: 38
episode: 1857   score: 75.20668804015006 numIters: 38
episode: 1858   score: 75.26020431410996 numIters: 38
episode: 1859   score: 75.20810314080178 numIters: 38
episode: 1860   score: 75.20614797329794 numIters: 38
episode: 1861   score: -80.9232403527474 numIters: 100
episode: 1862   score: 75.21106692922719 numIters: 38
episode: 1863   score: 75.22301665697702 numIters: 38
episode: 1864   score: 75.26903289934916 numIters: 38
episode: 1865   score: 75.29546507501256 numIters: 38
episode: 1866   score: 75.33553741090005 numIters: 38
episode: 1867   score: 75.32188305019892 numIters: 38
episode: 1868   score: 75.3722961545479 numIters: 38
episode: 1869   score: 75.27890216689599 numIters: 38
episode: 1870   score: 75.29722144177035 numIters: 38
episode: 1871   score: 75.33555966916448 numIters: 38
episode: 1872   score: 75.37983968870316 numIters: 38
episode: 1873   score: 75.26563573433765 numIters: 38
episode: 1874   score: 75.33678622892941 numIters: 38
episode: 1875   score: 75.2776635461131 numIters: 38
episode: 1876   score: 75.24241998544082 numIters: 38
episode: 1877   score: 75.29275461207581 numIters: 38
episode: 1878   score: 75.29592236740322 numIters: 38

```
episode: 1879   score: 75.3130437240092  numIters:  38
episode: 1880   score: 75.26553630536702  numIters:  38
episode: 1881   score: 75.29203946188541  numIters:  38
episode: 1882   score: 75.2915080039945  numIters:  38
episode: 1883   score: 75.32817527094151  numIters:  38
episode: 1884   score: 75.26458622609478  numIters:  38
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episode: 1887   score: -81.00941389865227  numIters:  100
episode: 1888   score: -81.45506236684018  numIters:  100
episode: 1889   score: -80.9760691740084  numIters:  100
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episode: 1893   score: -82.00673817436366  numIters:  100
episode: 1894   score: -81.96549629577756  numIters:  100
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episode: 1896   score: -82.13005757395833  numIters:  100
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episode: 1899   score: -85.34495059566356  numIters:  100
Testing:
Testing results:  score: -84.50901623390251  numIters:  100
episode: 1900   score: -84.40652350163681  numIters:  100
episode: 1901   score: -86.42085572682281  numIters:  100
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episode: 1903   score: -91.84172950512341  numIters:  100
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episode: 1905   score: -92.72263817312829  numIters:  100
episode: 1906   score: -97.00320700554425  numIters:  100
episode: 1907   score: -94.09424563747991  numIters:  100
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episode: 1910   score: -97.50669195786062  numIters:  100
episode: 1911   score: -97.65688578721993  numIters:  100
episode: 1912   score: -94.81819784731897  numIters:  100
episode: 1913   score: -98.32431895997433  numIters:  100
episode: 1914   score: -95.54531770397028  numIters:  100
episode: 1915   score: -98.20432368384932  numIters:  100
episode: 1916   score: -95.80788533782753  numIters:  100
episode: 1917   score: -93.28032885816914  numIters:  100
episode: 1918   score: -100.24342758840213  numIters:  100
episode: 1919   score: -95.33728500770115  numIters:  100
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episode: 1921   score: -96.96622483082798 numIters: 100
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episode: 1923   score: -97.77256637008962 numIters: 100
episode: 1924   score: -96.97911853515434 numIters: 100
episode: 1925   score: -96.43625119416872 numIters: 100
episode: 1926   score: -94.94142723389218 numIters: 100
episode: 1927   score: -97.5705861838287 numIters: 100
episode: 1928   score: -96.22266478194862 numIters: 100
episode: 1929   score: -94.51741541493666 numIters: 100
episode: 1930   score: -98.40824146644452 numIters: 100
episode: 1931   score: -96.4043400908197 numIters: 100
episode: 1932   score: -97.47489582737897 numIters: 100
episode: 1933   score: -96.87428197792322 numIters: 100
episode: 1934   score: -96.06412843118356 numIters: 100
episode: 1935   score: -97.03556013233579 numIters: 100
episode: 1936   score: -97.80614410430594 numIters: 100
episode: 1937   score: -97.90825029934504 numIters: 100
episode: 1938   score: -96.63370903650011 numIters: 100
episode: 1939   score: -97.83553869572806 numIters: 100
episode: 1940   score: -96.30683322345453 numIters: 100
episode: 1941   score: -95.79834823873544 numIters: 100
episode: 1942   score: -99.06685577821558 numIters: 100
episode: 1943   score: -97.99942985163337 numIters: 100
episode: 1944   score: -97.63627215343789 numIters: 100
episode: 1945   score: -97.62586449561007 numIters: 100
episode: 1946   score: -98.64495773212313 numIters: 100
episode: 1947   score: -97.75511842653829 numIters: 100
episode: 1948   score: -98.34997029661388 numIters: 100
episode: 1949   score: -98.0127293569068 numIters: 100
Testing:
Testing results: score: -99.18005187847355 numIters: 100
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episode: 1951   score: -98.09673953398111 numIters: 100
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episode: 1953   score: -98.95352405419855 numIters: 100
episode: 1954   score: -99.48494566756425 numIters: 100
episode: 1955   score: -96.7665949880788 numIters: 100
episode: 1956   score: -97.56690750982675 numIters: 100
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episode: 1959   score: -99.10340069316184 numIters: 100
episode: 1960   score: -99.3656477061799 numIters: 100

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episode: 1964   score: -100.35003913662553 numIters: 100
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episode: 1969   score: -102.04722012915626 numIters: 100
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episode: 1983   score: -96.31013621828626 numIters: 100
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episode: 1985   score: -94.54518459724423 numIters: 100
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episode: 1987   score: -98.67632409873723 numIters: 100
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episode: 1994   score: -96.1385870883141 numIters: 100
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episode: 1999   score: -102.47775716592501 numIters: 100
Testing:
Testing results: score: -107.74806477311893 numIters: 100
episode: 2000   score: -107.26731980016717 numIters: 100
episode: 2001   score: -111.30108323132629 numIters: 100

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episode: 2004   score: -105.85294349265776  numIters:  100
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episode: 2016   score: -96.87224488336977  numIters:  100
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episode: 2020   score: -102.91088370687879  numIters:  100
episode: 2021   score: -106.23230367900544  numIters:  100
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episode: 2023   score: -106.59229308627039  numIters:  100
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episode: 2040   score: -103.3970911589742  numIters:  100
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episode: 2046   score: -107.86422593367968 numIters: 100
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episode: 2048   score: -110.99782462683085 numIters: 100
episode: 2049   score: -113.39396661775366 numIters: 100
Testing:
Testing results: score: -114.12653700804987 numIters: 100
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episode: 2051   score: -113.32553808892592 numIters: 100
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episode: 2082   score: -103.50825182974603 numIters: 100
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episode: 2085   score: -104.32918824884491 numIters: 100

episode: 2086   score: -104.60811195005972 numIters: 100
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Testing:
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episode: 2126   score: -108.67960836806681 numIters: 100

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Testing:
Testing results: score: -104.36028330559895   numIters: 100
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Testing:
Testing results: score: -122.4538145427713 numIters: 100
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episode: 2229   score: -129.0317550536312 numIters: 100
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episode: 2232   score: -129.5410092224865 numIters: 100
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episode: 2234   score: -128.7525505206008 numIters: 100
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episode: 2242   score: -130.98800824504988 numIters: 100
episode: 2243   score: -129.37266797726193 numIters: 100
episode: 2244   score: -128.68162291996362 numIters: 100
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episode: 2246   score: -129.54657784960725 numIters: 100
episode: 2247   score: -129.87362512818453 numIters: 100
episode: 2248   score: -130.4517656213151 numIters: 100
episode: 2249   score: -131.90880899683987 numIters: 100
Testing:
Testing results: score: -132.90500297037767 numIters: 100

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episode: 2253   score: -132.6778631405148  numIters:  100
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episode: 2264   score: -132.08587804506575  numIters:  100
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episode: 2275   score: -133.39995915193222  numIters:  100
episode: 2276   score: -133.76890831201771  numIters:  100
episode: 2277   score: -135.2876175892168  numIters:  100
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episode: 2286   score: -114.19377137225968  numIters:  100
episode: 2287   score: -115.05913930989888  numIters:  100
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episode: 2291   score: -119.23883054957133  numIters:  100
episode: 2292   score: -120.08990608372567  numIters:  100
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episode: 2294   score: -121.17318766260135 numIters: 100
episode: 2295   score: -121.57497550919462 numIters: 100
episode: 2296   score: -122.37919400834475 numIters: 100
episode: 2297   score: -122.8980235821396 numIters: 100
episode: 2298   score: -123.44868564270455 numIters: 100
episode: 2299   score: -123.99032846916747 numIters: 100
Testing:
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episode: 2301   score: -125.46224256988754 numIters: 100
episode: 2302   score: -126.25839562184856 numIters: 100
episode: 2303   score: -126.78572795003542 numIters: 100
episode: 2304   score: -127.4206972338139 numIters: 100
episode: 2305   score: -127.71139286253609 numIters: 100
episode: 2306   score: -128.17134565748228 numIters: 100
episode: 2307   score: -128.765713912308 numIters: 100
episode: 2308   score: -129.1668641184518 numIters: 100
episode: 2309   score: -129.6719961057032 numIters: 100
episode: 2310   score: -130.35719754925196 numIters: 100
episode: 2311   score: -130.88085455600356 numIters: 100
episode: 2312   score: -131.26917172537918 numIters: 100
episode: 2313   score: -131.44519476195092 numIters: 100
episode: 2314   score: -131.61306683192646 numIters: 100
episode: 2315   score: -131.95664621944096 numIters: 100
episode: 2316   score: -132.06612082601083 numIters: 100
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episode: 2318   score: -132.657430335612 numIters: 100
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episode: 2320   score: -132.9754348366962 numIters: 100
episode: 2321   score: -133.31521876359656 numIters: 100
episode: 2322   score: -133.4980847269729 numIters: 100
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episode: 2324   score: -133.99977725604248 numIters: 100
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episode: 2328   score: -134.42354423599252 numIters: 100
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episode: 2330   score: -134.42840842008675 numIters: 100
episode: 2331   score: -134.4294555488807 numIters: 100
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episode: 2333   score: -134.3991879085184 numIters: 100

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episode: 2335   score: -134.33592555401694   numIters: 100
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episode: 2337   score: -134.32023507822538   numIters: 100
episode: 2338   score: -134.28836279462726   numIters: 100
episode: 2339   score: -134.14233686537892   numIters: 100
episode: 2340   score: -134.07808316591743   numIters: 100
episode: 2341   score: -133.90506002334826   numIters: 100
episode: 2342   score: -133.74514719405263   numIters: 100
episode: 2343   score: -133.5164555696219   numIters: 100
episode: 2344   score: -133.18268023737846   numIters: 100
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episode: 2346   score: -132.69545189142124   numIters: 100
episode: 2347   score: -132.71841243143615   numIters: 100
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episode: 2349   score: -132.63380175213123   numIters: 100
Testing:
Testing results: score: -132.60068611914468   numIters: 100
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episode: 2351   score: -132.6617897131897   numIters: 100
episode: 2352   score: -132.8180213964091   numIters: 100
episode: 2353   score: -132.55577357003028   numIters: 100
episode: 2354   score: -132.41636865718738   numIters: 100
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episode: 2356   score: -132.24326470514845   numIters: 100
episode: 2357   score: -132.08981720812383   numIters: 100
episode: 2358   score: -131.7596305941919   numIters: 100
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episode: 2362   score: -138.4186575789601   numIters: 100
episode: 2363   score: -149.9337596853368   numIters: 100
episode: 2364   score: -149.61532251076514   numIters: 100
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episode: 2367   score: -149.51452701339   numIters: 100
episode: 2368   score: -149.5553334409733   numIters: 100
episode: 2369   score: -149.20783206541083   numIters: 100
episode: 2370   score: -149.4729801580942   numIters: 100
episode: 2371   score: -149.42423840823977   numIters: 100
episode: 2372   score: -149.50241391285763   numIters: 100
episode: 2373   score: -149.23508136745434   numIters: 100
episode: 2374   score: -149.29038506640455   numIters: 100

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episode: 2377   score: -148.93357609222107 numIters: 100
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episode: 2379   score: -148.93592016520594 numIters: 100
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episode: 2381   score: -148.76497003671494 numIters: 100
episode: 2382   score: -148.60630712091117 numIters: 100
episode: 2383   score: -148.45780501415337 numIters: 100
episode: 2384   score: -148.37160879682529 numIters: 100
episode: 2385   score: -148.25087691047835 numIters: 100
episode: 2386   score: -148.0523721496926 numIters: 100
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episode: 2388   score: -148.05852654601762 numIters: 100
episode: 2389   score: -148.0042380042025 numIters: 100
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episode: 2391   score: -148.226158823146 numIters: 100
episode: 2392   score: -148.08176942659892 numIters: 100
episode: 2393   score: -148.1308114757102 numIters: 100
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episode: 2395   score: -148.03128675380924 numIters: 100
episode: 2396   score: -148.09126851047378 numIters: 100
episode: 2397   score: -147.94062451205772 numIters: 100
episode: 2398   score: -147.90207827154532 numIters: 100
episode: 2399   score: -147.76844567758383 numIters: 100
Testing:
Testing results: score: -147.6222366187421 numIters: 100
episode: 2400   score: -147.69611989976462 numIters: 100
episode: 2401   score: -147.96371320430214 numIters: 100
episode: 2402   score: -148.09888232616166 numIters: 100
episode: 2403   score: -148.15722624549477 numIters: 100
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episode: 2405   score: -147.98236910549977 numIters: 100
episode: 2406   score: -147.84967233527547 numIters: 100
episode: 2407   score: -147.75772507816194 numIters: 100
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episode: 2411   score: -147.66548461885057 numIters: 100
episode: 2412   score: -147.21307029290688 numIters: 100
episode: 2413   score: -145.77990509968552 numIters: 100
episode: 2414   score: -147.01527674402817 numIters: 100
episode: 2415   score: -146.96287146857844 numIters: 100

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episode: 2417   score: -146.68888183783992  numIters:  100
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episode: 2422   score: -146.20716874264355  numIters:  100
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episode: 2440   score: -145.4476922836902  numIters:  100
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episode: 2442   score: -145.1861800874615  numIters:  100
episode: 2443   score: -143.56449806766489  numIters:  100
episode: 2444   score: -144.67251110169423  numIters:  100
episode: 2445   score: -143.86316923032888  numIters:  100
episode: 2446   score: -143.45262879741747  numIters:  100
episode: 2447   score: -143.38902553041706  numIters:  100
episode: 2448   score: -143.45129886526166  numIters:  100
episode: 2449   score: -143.4553180825485  numIters:  100
Testing:
Testing results:  score: -143.34987966457336  numIters:  100
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episode: 2452   score: -142.8305667648279  numIters:  100
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episode: 2454   score: -142.5758334205842  numIters:  100
episode: 2455   score: -142.4681043617348  numIters:  100
episode: 2456   score: -142.4225333699755  numIters:  100
```

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episode: 2458   score: -142.3328890229084   numIters: 100
episode: 2459   score: -140.74946000326645   numIters: 100
episode: 2460   score: -139.07229113355575   numIters: 100
episode: 2461   score: -142.20401066439203   numIters: 100
episode: 2462   score: -140.16815592059848   numIters: 100
episode: 2463   score: -139.54503029196414   numIters: 100
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episode: 2465   score: -138.34955255073586   numIters: 100
episode: 2466   score: -137.08198265841168   numIters: 100
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episode: 2471   score: -134.6311694071174   numIters: 100
episode: 2472   score: -134.33783842084915   numIters: 100
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episode: 2475   score: -132.88094980914718   numIters: 100
episode: 2476   score: -132.95748487611954   numIters: 100
episode: 2477   score: -132.75781504938092   numIters: 100
episode: 2478   score: -132.6395638006719   numIters: 100
episode: 2479   score: -132.6274175001177   numIters: 100
episode: 2480   score: -132.71462238308027   numIters: 100
episode: 2481   score: -132.70108760582343   numIters: 100
episode: 2482   score: -132.54191673980813   numIters: 100
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episode: 2486   score: -134.6198634408857   numIters: 100
episode: 2487   score: -136.76101126304138   numIters: 100
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episode: 2489   score: -140.55940309365445   numIters: 100
episode: 2490   score: -140.92846959776645   numIters: 100
episode: 2491   score: -141.35535035256552   numIters: 100
episode: 2492   score: -141.83424215805584   numIters: 100
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episode: 2495   score: -143.66940849849797   numIters: 100
episode: 2496   score: -143.504518007366   numIters: 100
episode: 2497   score: -143.15829450245883   numIters: 100
episode: 2498   score: -142.77877674886665   numIters: 100
episode: 2499   score: -142.91849858648035   numIters: 100
```

Testing:
Testing results: score: -143.0950008350215 numIters: 100
episode: 2500   score: -143.12702507621395 numIters: 100
episode: 2501   score: -142.53543104980616 numIters: 100
episode: 2502   score: -142.57136044953884 numIters: 100
episode: 2503   score: -142.51470431877766 numIters: 100
episode: 2504   score: -142.46668622167346 numIters: 100
episode: 2505   score: -142.58306560044076 numIters: 100
episode: 2506   score: -142.59928901563248 numIters: 100
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episode: 2508   score: -142.54128961242452 numIters: 100
episode: 2509   score: -142.38896992468995 numIters: 100
episode: 2510   score: -142.34643807962962 numIters: 100
episode: 2511   score: -142.2883788864519 numIters: 100
episode: 2512   score: -142.3834771323455 numIters: 100
episode: 2513   score: -142.5061087334332 numIters: 100
episode: 2514   score: -136.6251972185857 numIters: 100
episode: 2515   score: -142.53416023333585 numIters: 100
episode: 2516   score: -142.5886921028564 numIters: 100
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episode: 2518   score: -142.4071216924321 numIters: 100
episode: 2519   score: -142.47059785127794 numIters: 100
episode: 2520   score: -142.6657449366548 numIters: 100
episode: 2521   score: -142.75110132534576 numIters: 100
episode: 2522   score: -143.0749408934015 numIters: 100
episode: 2523   score: -143.14362477901264 numIters: 100
episode: 2524   score: -136.49980572518072 numIters: 100
episode: 2525   score: -142.66148392636927 numIters: 100
episode: 2526   score: -142.8745686551336 numIters: 100
episode: 2527   score: -143.31293827718054 numIters: 100
episode: 2528   score: -143.12819127986373 numIters: 100
episode: 2529   score: -142.57780617301734 numIters: 100
episode: 2530   score: -142.76851826621964 numIters: 100
episode: 2531   score: -142.66259023710725 numIters: 100
episode: 2532   score: -142.8511219309475 numIters: 100
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episode: 2535   score: -139.4975787309126 numIters: 100
episode: 2536   score: -143.26825256150516 numIters: 100
episode: 2537   score: -139.16408055613212 numIters: 100
episode: 2538   score: -142.6531120342522 numIters: 100
episode: 2539   score: -142.76295884882444 numIters: 100
episode: 2540   score: -142.75280059569033 numIters: 100

episode: 2541   score: -142.8203727893947 numIters: 100
episode: 2542   score: -142.76331356318627 numIters: 100
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episode: 2547   score: -142.69527622296988 numIters: 100
episode: 2548   score: -142.9159331886674 numIters: 100
episode: 2549   score: -142.97093749620893 numIters: 100
Testing:
Testing results: score: -142.966680235418 numIters: 100
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episode: 2551   score: -142.92794456274368 numIters: 100
episode: 2552   score: -140.3889987418964 numIters: 100
episode: 2553   score: -143.53301696166727 numIters: 100
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episode: 2561   score: -142.85732639566706 numIters: 100
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episode: 2563   score: -142.84311337074988 numIters: 100
episode: 2564   score: -142.75660247271864 numIters: 100
episode: 2565   score: -140.06004449172144 numIters: 100
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episode: 2570   score: -142.8184780749013 numIters: 100
episode: 2571   score: -142.7596163495401 numIters: 100
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episode: 2573   score: -142.60618556856807 numIters: 100
episode: 2574   score: -142.55756753254525 numIters: 100
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episode: 2578   score: -142.36024008590454 numIters: 100
episode: 2579   score: -142.33007982413716 numIters: 100
episode: 2580   score: -142.38482962658023 numIters: 100
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episode: 2583   score: -142.0238245861529  numIters:  100
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episode: 2703   score: -144.83756321663645 numIters: 100
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Testing:
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episode: 2916   score: -108.42989190571859 numIters: 100
episode: 2917   score: -108.3634458439598 numIters: 100
episode: 2918   score: -108.01346990188141 numIters: 100
episode: 2919   score: -108.39060905466046 numIters: 100
episode: 2920   score: -108.33235121409913 numIters: 100
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episode: 2925   score: -107.73138669055449 numIters: 100
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episode: 2939   score: -103.16335411942596 numIters: 100
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episode: 2942   score: -102.79179200287427 numIters: 100
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episode: 2946   score: -101.4847136905614 numIters: 100
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episode: 2948   score: -100.76008068458059 numIters: 100
episode: 2949   score: -101.68858437326851 numIters: 100
Testing:
Testing results: score: -100.39163291479574 numIters: 100
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episode: 2951   score: -99.70140820368285 numIters: 100
episode: 2952   score: -100.52087469055456 numIters: 100

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episode: 2954   score: -99.50883528428879  numIters:  100
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episode: 2961   score: -98.61263659956306  numIters:  100
episode: 2962   score: -98.66084408468733  numIters:  100
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episode: 2981   score: -78.90459567470654  numIters:  100
episode: 2982   score: -82.82825913985518  numIters:  100
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episode: 2988   score: -90.85269861157708  numIters:  100
episode: 2989   score: -90.46396515354178  numIters:  100
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episode: 2991   score: -89.72015280885407  numIters:  100
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episode: 2993   score: -89.22383732022182  numIters:  100
episode: 2994   score: -89.11877326766236  numIters:  100
episode: 2995   score: -90.57859491115354  numIters:  100
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episode: 2997   score: -89.32796400834962  numIters:  100
episode: 2998   score: -89.92366592258189  numIters:  100
episode: 2999   score: -89.3104743881664  numIters:  100
Testing:
Testing results:  score: -89.46906082132072  numIters:  100
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episode: 3001   score: -89.07459790622677  numIters:  100
episode: 3002   score: -89.31985800730185  numIters:  100
episode: 3003   score: -89.14832094806926  numIters:  100
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episode: 3008   score: -87.93242294352481  numIters:  100
episode: 3009   score: -89.40665434188605  numIters:  100
episode: 3010   score: -87.77509452656754  numIters:  100
episode: 3011   score: -86.41212637991016  numIters:  100
episode: 3012   score: -91.4140541754329  numIters:  100
episode: 3013   score: -91.70697652821467  numIters:  100
episode: 3014   score: -85.55913831352412  numIters:  100
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episode: 3031   score: -82.28705368509617  numIters:  100
episode: 3032   score: -83.6965259524523  numIters:  100
episode: 3033   score: -85.9409829611852  numIters:  100
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episode: 3036   score: -81.58728135719032  numIters:  100
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episode: 3038   score: -85.18557242572973 numIters: 100
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episode: 3040   score: -81.37907031673232 numIters: 100
episode: 3041   score: -81.1604756986619 numIters: 100
episode: 3042   score: -81.73637160672585 numIters: 100
episode: 3043   score: -82.69064652814862 numIters: 100
episode: 3044   score: -84.05634193155068 numIters: 100
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episode: 3048   score: -83.88099361938976 numIters: 100
episode: 3049   score: -83.60564714237033 numIters: 100
Testing:
Testing results: score: -81.72811275445873 numIters: 100
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episode: 3052   score: -83.34116556298102 numIters: 100
episode: 3053   score: -83.33381097088814 numIters: 100
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episode: 3055   score: -80.49173736182769 numIters: 100
episode: 3056   score: -80.7955022319544 numIters: 100
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episode: 3059   score: -81.43540472129207 numIters: 100
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episode: 3063   score: -81.54276294664318 numIters: 100
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episode: 3065   score: -82.01030484299046 numIters: 100
episode: 3066   score: -82.10814342514783 numIters: 100
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episode: 3073   score: -82.67357437748265 numIters: 100
episode: 3074   score: -85.07287760420155 numIters: 100
episode: 3075   score: -81.5630092886567 numIters: 100
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episode: 3078   score: -78.46969734540049 numIters: 100
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episode: 3080   score: -78.66111327350878 numIters: 100
episode: 3081   score: -78.50183483795398 numIters: 100
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episode: 3084   score: -77.73170105369053 numIters: 100
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episode: 3086   score: -77.74975069877665 numIters: 100
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episode: 3088   score: -78.41369489195024 numIters: 100
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episode: 3096   score: -72.12784370401315 numIters: 100
episode: 3097   score: -78.39225615021623 numIters: 100
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episode: 3099   score: -76.46439419553789 numIters: 100
Testing:
Testing results: score: -71.95225130929146 numIters: 100
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episode: 3101   score: -72.50443296177968 numIters: 100
episode: 3102   score: -73.67754351465163 numIters: 100
episode: 3103   score: -76.35201948451397 numIters: 100
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episode: 3105   score: -71.7357364687478 numIters: 100
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episode: 3107   score: -71.14565227766104 numIters: 100
episode: 3108   score: -72.36769242324995 numIters: 100
episode: 3109   score: -73.52616335097743 numIters: 100
episode: 3110   score: -73.3734626921275 numIters: 100
episode: 3111   score: -72.28672279340665 numIters: 100
episode: 3112   score: -72.27031815806953 numIters: 100
episode: 3113   score: -72.50759277706979 numIters: 100
episode: 3114   score: -72.78064419230162 numIters: 100
episode: 3115   score: -73.28145417834016 numIters: 100
episode: 3116   score: -71.81203347665173 numIters: 100
episode: 3117   score: -71.42359992204433 numIters: 100
episode: 3118   score: -73.585639414142 numIters: 100

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episode: 3120   score: -71.6281987182043  numIters:  100
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episode: 3123   score: -73.00813143793712  numIters:  100
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episode: 3137   score: -72.7919735500577  numIters:  100
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episode: 3139   score: -62.247808023211256  numIters:  100
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episode: 3148   score: -71.72766997034785  numIters:  100
episode: 3149   score: -70.54930707888853  numIters:  100
Testing:
Testing results:  score: -70.75398491523485  numIters:  100
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episode: 3157   score: -71.27888491411576  numIters:  100
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episode: 3159   score: -71.03747115422233  numIters:  100
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episode: 3164   score: -70.5689936494209  numIters:  100
episode: 3165   score: -71.83132395469336  numIters:  100
episode: 3166   score: -71.32572141458554  numIters:  100
episode: 3167   score: -69.27428538310483  numIters:  100
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episode: 3169   score: -74.33252347888502  numIters:  100
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episode: 3175   score: -70.53484136340384  numIters:  100
episode: 3176   score: -70.23641287699998  numIters:  100
episode: 3177   score: -70.01785849955867  numIters:  100
episode: 3178   score: -70.26920368279237  numIters:  100
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episode: 3187   score: -69.95758461684221  numIters:  100
episode: 3188   score: -70.3020316924271  numIters:  100
episode: 3189   score: -70.26945710804881  numIters:  100
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episode: 3199   score: -65.1251331032628  numIters:  100
Testing:
Testing results:  score: -65.47683027389917  numIters:  100
episode: 3200   score: -64.69543090928937  numIters:  100
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episode: 3206   score: -61.773995107190565  numIters:  100
episode: 3207   score: -60.09015653748906  numIters:  100
episode: 3208   score: -60.20758319031115  numIters:  100
episode: 3209   score: -59.79844907783692  numIters:  100
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episode: 3220   score: -65.44336724654504  numIters:  100
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episode: 3222   score: -66.04625121022306  numIters:  100
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episode: 3225   score: -68.48788826730951  numIters:  100
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episode: 3249   score: -61.32280350033602   numIters: 100
Testing:
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Testing:

Testing results: score: -60.29201724246378 numIters: 100
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Testing:
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episode: 3515   score: -55.98745784772058 numIters: 100
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episode: 3599   score: -54.93386729313688 numIters: 100
Testing:
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Testing:
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Testing:
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Testing:
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Testing:
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Testing:
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episode: 3882   score: -54.839131189462854 numIters: 100
episode: 3883   score: -54.67648375391546 numIters: 100
episode: 3884   score: -54.969064395184105 numIters: 100
episode: 3885   score: -54.80749544468642 numIters: 100
episode: 3886   score: -54.785168685329296 numIters: 100
episode: 3887   score: -54.55729971083524 numIters: 100
episode: 3888   score: -54.383402104120556 numIters: 100
episode: 3889   score: -55.1895934955314 numIters: 100
episode: 3890   score: -54.74482776848119 numIters: 100
episode: 3891   score: -54.86286662933312 numIters: 100
episode: 3892   score: -60.4951943497508 numIters: 100
episode: 3893   score: -59.58818869200962 numIters: 100
episode: 3894   score: -60.04330598193154 numIters: 100
episode: 3895   score: -60.222660759403325 numIters: 100
episode: 3896   score: -58.913138599909935 numIters: 100
episode: 3897   score: -59.747252533366854 numIters: 100
episode: 3898   score: -60.10549665149536 numIters: 100
episode: 3899   score: -59.99532213236612 numIters: 100
Testing:
Testing results: score: -59.90758641537904 numIters: 100
episode: 3900   score: -59.73016771933737 numIters: 100
episode: 3901   score: -59.4068920801198 numIters: 100
episode: 3902   score: -57.55322856256424 numIters: 100
episode: 3903   score: -55.6800285065489 numIters: 100

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episode: 3904   score: -55.48376025864348  numIters: 100
episode: 3905   score: -55.39635989330372  numIters: 100
episode: 3906   score: -55.525767046921764  numIters: 100
episode: 3907   score: -56.13540997965368  numIters: 100
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episode: 3911   score: -55.39343313009939  numIters: 100
episode: 3912   score: -54.89174693190295  numIters: 100
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episode: 3914   score: -56.4458520991459  numIters: 100
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episode: 3916   score: -55.44496238805368  numIters: 100
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episode: 3918   score: -55.52148635954774  numIters: 100
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episode: 3921   score: -54.217366541377764  numIters: 100
episode: 3922   score: -58.75408336596666  numIters: 100
episode: 3923   score: -57.23849643084208  numIters: 100
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episode: 3925   score: -56.06144929662939  numIters: 100
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episode: 3929   score: -55.650884157322494  numIters: 100
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episode: 3931   score: -54.59141937862989  numIters: 100
episode: 3932   score: -55.19000925637723  numIters: 100
episode: 3933   score: -54.5606647523411  numIters: 100
episode: 3934   score: -54.322829394578775  numIters: 100
episode: 3935   score: -53.897458980230226  numIters: 100
episode: 3936   score: -54.54042995682875  numIters: 100
episode: 3937   score: -54.38378072913452  numIters: 100
episode: 3938   score: -54.06495201123958  numIters: 100
episode: 3939   score: -54.598036583886284  numIters: 100
episode: 3940   score: -54.71595040443484  numIters: 100
episode: 3941   score: -54.618361941766324  numIters: 100
episode: 3942   score: -57.6373113225487  numIters: 100
episode: 3943   score: -57.806886443055404  numIters: 100
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episode: 3946   score: -55.43964254182817  numIters: 100
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episode: 3947   score: -55.455244704494795 numIters: 100
episode: 3948   score: -55.75741523508069 numIters: 100
episode: 3949   score: -55.54753439922975 numIters: 100
Testing:
Testing results: score: -55.34592551496857 numIters: 100
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episode: 3952   score: -54.17447851717681 numIters: 100
episode: 3953   score: -55.079847965565286 numIters: 100
episode: 3954   score: -55.12285017416297 numIters: 100
episode: 3955   score: -55.20258396269943 numIters: 100
episode: 3956   score: -54.47338347299508 numIters: 100
episode: 3957   score: -54.14796308704186 numIters: 100
episode: 3958   score: -55.5292860830413 numIters: 100
episode: 3959   score: -55.02351320650811 numIters: 100
episode: 3960   score: -54.52428370108699 numIters: 100
episode: 3961   score: -54.480102988474066 numIters: 100
episode: 3962   score: -54.93588428910309 numIters: 100
episode: 3963   score: -54.17170928463774 numIters: 100
episode: 3964   score: -55.04210479020334 numIters: 100
episode: 3965   score: -54.49219434239429 numIters: 100
episode: 3966   score: -54.54374533100664 numIters: 100
episode: 3967   score: -54.38322000323424 numIters: 100
episode: 3968   score: -54.64193371200583 numIters: 100
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episode: 3970   score: -54.58456934347293 numIters: 100
episode: 3971   score: -53.73215519919452 numIters: 100
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episode: 3973   score: -54.61642811075109 numIters: 100
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episode: 3975   score: -54.04668636386541 numIters: 100
episode: 3976   score: -54.51395480540396 numIters: 100
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episode: 3978   score: -50.431228052728734 numIters: 100
episode: 3979   score: -54.433570005114966 numIters: 100
episode: 3980   score: -56.416997961811354 numIters: 100
episode: 3981   score: -56.30250358113877 numIters: 100
episode: 3982   score: -56.345898160791705 numIters: 100
episode: 3983   score: -56.15177312395155 numIters: 100
episode: 3984   score: -55.9086886654691 numIters: 100
episode: 3985   score: -55.64807298973361 numIters: 100
episode: 3986   score: -55.525987535436514 numIters: 100
episode: 3987   score: -55.48116473431492 numIters: 100

episode: 3988   score: -55.55362760230477 numIters: 100
episode: 3989   score: -55.379300772662056 numIters: 100
episode: 3990   score: -55.92546240968066 numIters: 100
episode: 3991   score: -54.65409695001785 numIters: 100
episode: 3992   score: -55.595529373513486 numIters: 100
episode: 3993   score: -55.599884246353966 numIters: 100
episode: 3994   score: -54.538217916297505 numIters: 100
episode: 3995   score: -55.01028085583316 numIters: 100
episode: 3996   score: -55.46029538377935 numIters: 100
episode: 3997   score: -55.62371911365232 numIters: 100
episode: 3998   score: -55.29174252113201 numIters: 100
episode: 3999   score: -54.678018630022905 numIters: 100
Testing:
Testing results: score: -55.444645088183485 numIters: 100
episode: 4000   score: -55.02484779950362 numIters: 100
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episode: 4004   score: -55.26801155539714 numIters: 100
episode: 4005   score: -55.08201444456453 numIters: 100
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episode: 4007   score: -54.76881666001261 numIters: 100
episode: 4008   score: -54.75372779193406 numIters: 100
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episode: 4011   score: -55.272554330032406 numIters: 100
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episode: 4013   score: -54.15270641097411 numIters: 100
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episode: 4015   score: -54.53391395423788 numIters: 100
episode: 4016   score: -55.21331109789581 numIters: 100
episode: 4017   score: -54.74267212548815 numIters: 100
episode: 4018   score: -55.60025517690476 numIters: 100
episode: 4019   score: -54.99087337978683 numIters: 100
episode: 4020   score: -54.3817513727647 numIters: 100
episode: 4021   score: -54.77865114235214 numIters: 100
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episode: 4024   score: -54.44310429564211 numIters: 100
episode: 4025   score: -54.72290195861006 numIters: 100
episode: 4026   score: -55.524664688277824 numIters: 100
episode: 4027   score: -54.22392245193031 numIters: 100
episode: 4028   score: -54.50849720384431 numIters: 100

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episode: 4030   score: -50.428845721236556 numIters: 100
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episode: 4032   score: -50.573867518123265 numIters: 100
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episode: 4037   score: -51.00553730733815 numIters: 100
episode: 4038   score: -50.49712495491344 numIters: 100
episode: 4039   score: -50.78979311509799 numIters: 100
episode: 4040   score: -50.718606235615475 numIters: 100
episode: 4041   score: -50.657588876156375 numIters: 100
episode: 4042   score: -51.32979402377501 numIters: 100
episode: 4043   score: -50.86510785740302 numIters: 100
episode: 4044   score: -51.043439416025436 numIters: 100
episode: 4045   score: -51.40551570340906 numIters: 100
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episode: 4049   score: -51.198710181123154 numIters: 100
Testing:
Testing results: score: -52.186395294197524 numIters: 100
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episode: 4053   score: -52.234304972451326 numIters: 100
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episode: 4055   score: -55.10944783725696 numIters: 100
episode: 4056   score: -55.43934364844466 numIters: 100
episode: 4057   score: -55.06635622473929 numIters: 100
episode: 4058   score: -54.615823284192004 numIters: 100
episode: 4059   score: -55.49782949279151 numIters: 100
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episode: 4062   score: -55.55890074390494 numIters: 100
episode: 4063   score: -55.17446814610308 numIters: 100
episode: 4064   score: -55.32721267267786 numIters: 100
episode: 4065   score: -55.316593114844444 numIters: 100
episode: 4066   score: -55.25093620175021 numIters: 100
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episode: 4069   score: -54.98530805263 numIters: 100

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episode: 4072   score: -55.0121589799952 numIters: 100
episode: 4073   score: -55.04976029733494 numIters: 100
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episode: 4076   score: -53.691114529848576 numIters: 100
episode: 4077   score: -53.96946077423905 numIters: 100
episode: 4078   score: -54.17462504865005 numIters: 100
episode: 4079   score: -53.7154576899774 numIters: 100
episode: 4080   score: -53.42737978549365 numIters: 100
episode: 4081   score: -53.71447331386879 numIters: 100
episode: 4082   score: -53.53130240378449 numIters: 100
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episode: 4085   score: -54.14706217348939 numIters: 100
episode: 4086   score: -53.46689117544991 numIters: 100
episode: 4087   score: -53.76489896556051 numIters: 100
episode: 4088   score: -53.898223690632264 numIters: 100
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episode: 4090   score: -53.33495650278012 numIters: 100
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episode: 4092   score: -52.879594646813146 numIters: 100
episode: 4093   score: -53.06655002982676 numIters: 100
episode: 4094   score: -53.26330041713419 numIters: 100
episode: 4095   score: -52.65339542187102 numIters: 100
episode: 4096   score: -52.35052145889943 numIters: 100
episode: 4097   score: -52.8570345343935 numIters: 100
episode: 4098   score: -52.900816415855864 numIters: 100
episode: 4099   score: -52.13063826823645 numIters: 100
Testing:
Testing results: score: -52.25426269599709 numIters: 100
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episode: 4101   score: -49.17962026416599 numIters: 100
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episode: 4103   score: -50.52421664754643 numIters: 100
episode: 4104   score: -51.836311549521625 numIters: 100
episode: 4105   score: -52.061372809629134 numIters: 100
episode: 4106   score: -50.669514143806914 numIters: 100
episode: 4107   score: -51.42748685755194 numIters: 100
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episode: 4109   score: -50.87906638589138 numIters: 100
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episode: 4114   score: -50.40452005639437 numIters: 100
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episode: 4117   score: -50.31208629356845 numIters: 100
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episode: 4122   score: -50.986039861938934 numIters: 100
episode: 4123   score: -50.93579262324316 numIters: 100
episode: 4124   score: -50.82234701723844 numIters: 100
episode: 4125   score: -49.75473818173397 numIters: 100
episode: 4126   score: -50.18213829491898 numIters: 100
episode: 4127   score: -50.69732592129286 numIters: 100
episode: 4128   score: -50.56058524829103 numIters: 100
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episode: 4131   score: -50.368994827382906 numIters: 100
episode: 4132   score: -50.3005442849396 numIters: 100
episode: 4133   score: -49.74719811704309 numIters: 100
episode: 4134   score: -50.04850753882631 numIters: 100
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episode: 4137   score: -50.79074216372923 numIters: 100
episode: 4138   score: -50.30689367666957 numIters: 100
episode: 4139   score: -50.04243055761859 numIters: 100
episode: 4140   score: -50.30164314230971 numIters: 100
episode: 4141   score: -49.8860881750952 numIters: 100
episode: 4142   score: -50.0781966483532 numIters: 100
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episode: 4144   score: -49.7644551622474 numIters: 100
episode: 4145   score: -49.57498521767583 numIters: 100
episode: 4146   score: -49.763200144838284 numIters: 100
episode: 4147   score: -49.692410485430436 numIters: 100
episode: 4148   score: -49.42983063620894 numIters: 100
episode: 4149   score: -49.81312260220073 numIters: 100
Testing:
Testing results: score: -50.073503288594246 numIters: 100
episode: 4150   score: -49.516945159863894 numIters: 100
episode: 4151   score: -49.79117751936794 numIters: 100

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episode: 4153   score: -49.63746259788529  numIters:  100
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episode: 4155   score: -49.152134660486055  numIters:  100
episode: 4156   score: -49.16591387713628  numIters:  100
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episode: 4158   score: -48.86207515959227  numIters:  100
episode: 4159   score: -48.46855051938171  numIters:  100
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episode: 4162   score: 78.74158642884899  numIters:  36
episode: 4163   score: 78.66896438029019  numIters:  36
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episode: 4171   score: -53.63830719147874  numIters:  100
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episode: 4178   score: -50.36410740912841  numIters:  100
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episode: 4181   score: -49.92114542956344  numIters:  100
episode: 4182   score: -49.98960712831661  numIters:  100
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episode: 4185   score: -50.3105064208493  numIters:  100
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episode: 4187   score: -49.95919933656384  numIters:  100
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episode: 4189   score: -49.77791685307503  numIters:  100
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episode: 4194   score: -49.68385499510257  numIters:  100
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episode: 4196   score: -49.6099519592144 numIters: 100
episode: 4197   score: -49.253780108719 numIters: 100
episode: 4198   score: -49.53144498678607 numIters: 100
episode: 4199   score: -49.64579691924586 numIters: 100
Testing:
Testing results: score: -49.90173146158782 numIters: 100
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episode: 4206   score: -50.18934240136633 numIters: 100
episode: 4207   score: -49.79894226127299 numIters: 100
episode: 4208   score: -49.32477919494171 numIters: 100
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episode: 4210   score: -49.92108485990113 numIters: 100
episode: 4211   score: -49.463799812364186 numIters: 100
episode: 4212   score: -49.62712487835893 numIters: 100
episode: 4213   score: -49.512473189844634 numIters: 100
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episode: 4215   score: -49.42160607732959 numIters: 100
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episode: 4217   score: -48.95528600355382 numIters: 100
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episode: 4220   score: 78.61582605095828 numIters: 36
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episode: 4225   score: -48.2276033143132 numIters: 100
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episode: 4233   score: -48.3385094473169 numIters: 100
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episode: 4235   score: -48.24893470115539 numIters: 100

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episode: 4241   score: -48.41418591213141   numIters: 100
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episode: 4245   score: -48.50489802053214   numIters: 100
episode: 4246   score: -49.16912378818277   numIters: 100
episode: 4247   score: -49.759326204482825   numIters: 100
episode: 4248   score: -49.70444569053514   numIters: 100
episode: 4249   score: -50.204834259561736   numIters: 100
Testing:
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episode: 4253   score: -47.95277246040923   numIters: 100
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episode: 4255   score: -48.21396747927725   numIters: 100
episode: 4256   score: -48.17926919879012   numIters: 100
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episode: 4267   score: -48.44209711629127   numIters: 100
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episode: 4298   score: -50.78938023590153   numIters: 100
episode: 4299   score: -50.68030778990679   numIters: 100
Testing:
Testing results: score: -50.83722441727736   numIters: 100
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episode: 4301   score: -50.17808349164184   numIters: 100
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episode: 4315   score: -50.37776798160736   numIters: 100
episode: 4316   score: -50.74064169445741   numIters: 100
episode: 4317   score: -50.58895322888153   numIters: 100

episode: 4318   score: -50.42047392550004   numIters: 100
episode: 4319   score: -50.471138576412564   numIters: 100
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episode: 4330   score: 78.6618882544372   numIters: 36
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episode: 4334   score: -49.525538446817855   numIters: 100
episode: 4335   score: -48.97095822178811   numIters: 100
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episode: 4337   score: -50.80065638950532   numIters: 100
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episode: 4339   score: -50.97603793390378   numIters: 100
episode: 4340   score: -50.88494919307072   numIters: 100
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episode: 4346   score: -50.746498876409696   numIters: 100
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episode: 4348   score: -50.86286304752078   numIters: 100
episode: 4349   score: -51.11596891595919   numIters: 100
Testing:
Testing results: score: -51.14116171655587   numIters: 100
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episode: 4355   score: -50.71747754131887   numIters: 100
episode: 4356   score: -50.092938686027445   numIters: 100
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episode: 4360   score: -50.39213977852128  numIters:  100
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episode: 4362   score: -50.26122924788198  numIters:  100
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episode: 4380   score: -50.35166137904309  numIters:  100
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episode: 4387   score: -50.218297710465635  numIters:  100
episode: 4388   score: -50.94147867278253  numIters:  100
episode: 4389   score: -50.47307157585923  numIters:  100
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episode: 4392   score: -50.30102396622106  numIters:  100
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episode: 4396   score: -50.21318590744123  numIters:  100
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episode: 4398   score: -50.58514910501137  numIters:  100
episode: 4399   score: -50.14444216652988  numIters:  100
Testing:
Testing results:  score: -49.67734397424529  numIters:  100
```

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episode: 4401   score: -51.28995961938406   numIters:  100
episode: 4402   score: -49.78813094666344   numIters:  100
episode: 4403   score: -50.14555659964891   numIters:  100
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episode: 4415   score: -50.850178499291204  numIters:  100
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episode: 4417   score: -51.30833079968457   numIters:  100
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episode: 4419   score: -50.834976570893545  numIters:  100
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episode: 4429   score: -50.80044127799157   numIters:  100
episode: 4430   score: -51.025873657613246  numIters:  100
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episode: 4433   score: -50.96916233177503   numIters:  100
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episode: 4437   score: -50.9798489948286    numIters:  100
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episode: 4439   score: -50.62767632200971   numIters:  100
episode: 4440   score: -50.911244055148224  numIters:  100
episode: 4441   score: -54.32467426657748   numIters:  100
episode: 4442   score: -49.90816989635459   numIters:  100
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episode: 4444   score: -48.603494427688965 numIters: 100
episode: 4445   score: -48.46994609826313 numIters: 100
episode: 4446   score: -50.22488617723485 numIters: 100
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Testing:
Testing results: score: -51.92068279750702 numIters: 100
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episode: 4451   score: -51.51278801490023 numIters: 100
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episode: 4457   score: -51.32702929334046 numIters: 100
episode: 4458   score: -50.98349271000978 numIters: 100
episode: 4459   score: -50.663555414220795 numIters: 100
episode: 4460   score: -50.97638614308335 numIters: 100
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episode: 4463   score: -49.05650905431702 numIters: 100
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episode: 4465   score: -48.93727154867356 numIters: 100
episode: 4466   score: -48.97959320385787 numIters: 100
episode: 4467   score: -49.07146543309479 numIters: 100
episode: 4468   score: -49.64020321758224 numIters: 100
episode: 4469   score: -50.53225239995889 numIters: 100
episode: 4470   score: -51.329770254150304 numIters: 100
episode: 4471   score: -55.82114045961632 numIters: 100
episode: 4472   score: -55.67714017971292 numIters: 100
episode: 4473   score: -52.782852583730715 numIters: 100
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episode: 4475   score: -52.346299732968944 numIters: 100
episode: 4476   score: -53.24914049213503 numIters: 100
episode: 4477   score: -52.563517482654504 numIters: 100
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episode: 4479   score: -52.35859625205247 numIters: 100
episode: 4480   score: -52.612285416342374 numIters: 100
episode: 4481   score: -52.49570037141631 numIters: 100
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episode: 4483   score: -52.33900111873696 numIters: 100

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episode: 4486   score: -50.65888318211871   numIters: 100
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episode: 4490   score: -48.63910862567729   numIters: 100
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episode: 4497   score: -52.13806642920126   numIters: 100
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Testing results: score: -53.10890087754584   numIters: 100
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episode: 4501   score: -53.23210159904525   numIters: 100
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episode: 4522   score: -51.957385835236664   numIters: 100
episode: 4523   score: -52.089258921456434   numIters: 100
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episode: 4548   score: -51.34957528070455   numIters: 100
episode: 4549   score: -50.25842342745839   numIters: 100
Testing:
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Testing:
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Testing:
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Testing:
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Testing:
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Testing:
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Testing:
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episode: 4854   score: -52.160156557429545   numIters: 100

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episode: 4933   score: -52.90376579930796 numIters: 100
episode: 4934   score: -53.37804664463597 numIters: 100
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episode: 4999   score: -161.83556465049827 numIters: 100
Testing:
Testing results: score: -161.26814630740347 numIters: 100
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Testing:
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episode: 5082   score: -163.89182283922432 numIters: 100
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Testing:
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Testing:

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episode: 6499   score: -154.10398966601224 numIters: 100
Testing:
Testing results: score: -151.6686724849531 numIters: 100
episode: 6500   score: -156.0880018525831 numIters: 100
episode: 6501   score: -155.29188534826085 numIters: 100
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episode: 6531   score: -156.48935940531135 numIters: 100
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episode: 6534   score: -153.5582691412558 numIters: 100
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episode: 6549   score: -156.70002528270842 numIters: 100
Testing:
Testing results: score: -152.26846337858066 numIters: 100

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episode: 6589   score: -154.89685362891035  numIters:  100
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episode: 6592   score: -152.9763673113788  numIters:  100
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episode: 6596   score: -152.21037146003422 numIters: 100
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episode: 6599   score: -152.11690660348714 numIters: 100
Testing:
Testing results: score: -149.92806476576283 numIters: 100
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episode: 6640   score: -152.06475227559835 numIters: 100
episode: 6641   score: -152.12593368053444 numIters: 100
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episode: 6643   score: -153.35666344983437 numIters: 100
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Testing:
Testing results: score: -151.4184465888075 numIters: 100
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episode: 6658   score: -153.49800518786634 numIters: 100
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episode: 6665   score: -153.9256016169399 numIters: 100
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episode: 6681   score: -159.6312299858841   numIters: 100
episode: 6682   score: -157.8812104021935   numIters: 100
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episode: 6686   score: -158.07477275394893   numIters: 100
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episode: 6688   score: -157.59130478607966   numIters: 100
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episode: 6699   score: -153.65816663824623   numIters: 100
Testing:
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episode: 6701   score: -155.0436920599158   numIters: 100
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episode: 6733   score: -154.11680624309142   numIters: 100
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Testing:
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episode: 6753   score: -153.45636226921138   numIters: 100
episode: 6754   score: -153.64781439609018   numIters: 100
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episode: 6760   score: -155.2908008873108  numIters: 100
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episode: 6763   score: -153.6192334360118  numIters: 100
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Testing:
Testing results: score: -151.4848573435412 numIters: 100
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episode: 6805   score: -153.00692269601393 numIters: 100
episode: 6806   score: -154.0537779579844 numIters: 100
episode: 6807   score: -154.51023781802408 numIters: 100
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episode: 7456   score: -151.6677783125516 numIters: 100
episode: 7457   score: -150.74706248855506 numIters: 100
episode: 7458   score: -150.77974893921913 numIters: 100
episode: 7459   score: -152.32240471639483 numIters: 100

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episode: 7461   score: -152.0684689672063  numIters:  100
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episode: 7463   score: -152.7323329953986  numIters:  100
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episode: 7465   score: -153.35717137124527  numIters:  100
episode: 7466   score: -153.32810391284409  numIters:  100
episode: 7467   score: -153.05812722150208  numIters:  100
episode: 7468   score: -153.78632251105577  numIters:  100
episode: 7469   score: -153.7156021388814  numIters:  100
episode: 7470   score: -155.2337754913131  numIters:  100
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episode: 7472   score: -153.15000035596157  numIters:  100
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episode: 7475   score: -153.23917373241656  numIters:  100
episode: 7476   score: -152.1293347698695  numIters:  100
episode: 7477   score: -154.35940354999656  numIters:  100
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episode: 7479   score: -150.5217356362861  numIters:  100
episode: 7480   score: -152.71411723597342  numIters:  100
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episode: 7488   score: -153.11571043897203  numIters:  100
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episode: 7497   score: -151.2900438737856  numIters:  100
episode: 7498   score: -153.95242798985865  numIters:  100
episode: 7499   score: -151.35512679055657  numIters:  100
Testing:
Testing results:  score: -148.79760690852686  numIters:  100
episode: 7500   score: -151.12643159038626  numIters:  100
```

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episode: 7502   score: -152.91947452962793  numIters:  100
episode: 7503   score: -151.00291768328904  numIters:  100
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episode: 7505   score: -149.6124011099616  numIters:  100
episode: 7506   score: -151.1350780934183  numIters:  100
episode: 7507   score: -149.76172324815212  numIters:  100
episode: 7508   score: -148.72012386306645  numIters:  100
episode: 7509   score: -151.1542350882355  numIters:  100
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episode: 7514   score: -148.51757843343216  numIters:  100
episode: 7515   score: -149.00832049316404  numIters:  100
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episode: 7517   score: -150.41393766496114  numIters:  100
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episode: 7522   score: -148.90072665126732  numIters:  100
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episode: 7526   score: -146.420755341471  numIters:  100
episode: 7527   score: -141.9739108499868  numIters:  100
episode: 7528   score: -147.3059513156786  numIters:  100
episode: 7529   score: -149.14415843581196  numIters:  100
episode: 7530   score: -141.6723764657116  numIters:  100
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episode: 7532   score: -117.57769105960136  numIters:  100
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episode: 7535   score: -148.14633632710863  numIters:  100
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episode: 7537   score: -151.60682924393936  numIters:  100
episode: 7538   score: -150.92654482572982  numIters:  100
episode: 7539   score: -148.41177664349584  numIters:  100
episode: 7540   score: -149.01780295637133  numIters:  100
episode: 7541   score: -148.55170216473277  numIters:  100
episode: 7542   score: -151.27849648884506  numIters:  100
episode: 7543   score: -149.18333798524256  numIters:  100
```

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episode: 7545   score: -149.56102160612636   numIters: 100
episode: 7546   score: -149.99142270908698   numIters: 100
episode: 7547   score: -149.9330181425378   numIters: 100
episode: 7548   score: -149.7011584145854   numIters: 100
episode: 7549   score: -150.01629576134656   numIters: 100
Testing:
Testing results: score: -149.20491124052955   numIters: 100
episode: 7550   score: -151.6271384501005   numIters: 100
episode: 7551   score: -151.8183964418661   numIters: 100
episode: 7552   score: -150.28483861655977   numIters: 100
episode: 7553   score: -149.1693542760678   numIters: 100
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episode: 7555   score: -150.25646148084166   numIters: 100
episode: 7556   score: -150.6870974474301   numIters: 100
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episode: 7558   score: -149.09732640071093   numIters: 100
episode: 7559   score: -151.3999715148813   numIters: 100
episode: 7560   score: -148.36456827249603   numIters: 100
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episode: 7562   score: -140.56318560400263   numIters: 100
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episode: 7565   score: -148.40535979614464   numIters: 100
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episode: 7571   score: -147.70062884609226   numIters: 100
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episode: 7576   score: -147.5493975384183   numIters: 100
episode: 7577   score: -149.22879389505792   numIters: 100
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episode: 7579   score: -150.66788026603584   numIters: 100
episode: 7580   score: -151.2131211565292   numIters: 100
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episode: 7582   score: -150.77752900062364   numIters: 100
episode: 7583   score: -150.99313188346173   numIters: 100
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episode: 7585   score: -150.9362407828863 numIters: 100
episode: 7586   score: -149.91879055260137 numIters: 100
episode: 7587   score: -150.18986747134812 numIters: 100
episode: 7588   score: -152.35541563247793 numIters: 100
episode: 7589   score: -149.7945160536401 numIters: 100
episode: 7590   score: -152.12870964158444 numIters: 100
episode: 7591   score: -151.1145293422917 numIters: 100
episode: 7592   score: -151.61183228689367 numIters: 100
episode: 7593   score: -151.95207089767294 numIters: 100
episode: 7594   score: -151.32472361967493 numIters: 100
episode: 7595   score: -151.24616036145997 numIters: 100
episode: 7596   score: -151.03264696278697 numIters: 100
episode: 7597   score: -150.08491587594747 numIters: 100
episode: 7598   score: -150.50939292210373 numIters: 100
episode: 7599   score: -151.38433557124793 numIters: 100
Testing:
Testing results: score: -149.42622657649747 numIters: 100
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episode: 7601   score: -150.84143859154045 numIters: 100
episode: 7602   score: -151.6623992433864 numIters: 100
episode: 7603   score: -151.7677863076187 numIters: 100
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episode: 7606   score: -152.19535931692258 numIters: 100
episode: 7607   score: -152.5690434582235 numIters: 100
episode: 7608   score: -150.50286131140768 numIters: 100
episode: 7609   score: -149.8266860187573 numIters: 100
episode: 7610   score: -150.94194626492063 numIters: 100
episode: 7611   score: -151.7123625104655 numIters: 100
episode: 7612   score: -150.56506365898522 numIters: 100
episode: 7613   score: -151.87123787340545 numIters: 100
episode: 7614   score: -151.6044186529105 numIters: 100
episode: 7615   score: -152.46631605722175 numIters: 100
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episode: 7617   score: -151.05084038222915 numIters: 100
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episode: 7619   score: -150.50608933733696 numIters: 100
episode: 7620   score: -150.46259784652943 numIters: 100
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episode: 7622   score: -151.94049437998757 numIters: 100
episode: 7623   score: -151.16430003318985 numIters: 100
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episode: 7625   score: -151.2976381899035 numIters: 100

episode: 7626   score: -151.31896191538453 numIters: 100
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episode: 7628   score: -152.27319696222042 numIters: 100
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episode: 7630   score: -151.657328137223 numIters: 100
episode: 7631   score: -152.38282037509896 numIters: 100
episode: 7632   score: -151.80728901602734 numIters: 100
episode: 7633   score: -151.94810162917963 numIters: 100
episode: 7634   score: -150.82582103940055 numIters: 100
episode: 7635   score: -151.61830929643585 numIters: 100
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episode: 7638   score: -151.61298382806982 numIters: 100
episode: 7639   score: -154.46356016196307 numIters: 100
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episode: 7641   score: -155.199389385272 numIters: 100
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episode: 7643   score: -151.77860473568694 numIters: 100
episode: 7644   score: -151.6894938208519 numIters: 100
episode: 7645   score: -151.70012410144537 numIters: 100
episode: 7646   score: -152.57700867923865 numIters: 100
episode: 7647   score: -151.77771021716833 numIters: 100
episode: 7648   score: -151.86891634581562 numIters: 100
episode: 7649   score: -151.88005266488398 numIters: 100
Testing:
Testing results: score: -149.30810611222344 numIters: 100
episode: 7650   score: -150.45561097947808 numIters: 100
episode: 7651   score: -151.37307630434387 numIters: 100
episode: 7652   score: -151.00708092339664 numIters: 100
episode: 7653   score: -150.89603434478312 numIters: 100
episode: 7654   score: -152.05429542679178 numIters: 100
episode: 7655   score: -152.855585785927 numIters: 100
episode: 7656   score: -153.24787153349627 numIters: 100
episode: 7657   score: -152.2242959397558 numIters: 100
episode: 7658   score: -153.21848067723465 numIters: 100
episode: 7659   score: -152.29022037616502 numIters: 100
episode: 7660   score: -151.41628922086235 numIters: 100
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episode: 7662   score: -152.54622147090276 numIters: 100
episode: 7663   score: -152.77981173909686 numIters: 100
episode: 7664   score: -151.1645181232949 numIters: 100
episode: 7665   score: -151.4649234126766 numIters: 100
episode: 7666   score: -151.80654706245255 numIters: 100

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episode: 7668   score: -151.1985435202985   numIters:  100
episode: 7669   score: -151.33383263680474  numIters:  100
episode: 7670   score: -150.60646590029359  numIters:  100
episode: 7671   score: -149.89717067593378  numIters:  100
episode: 7672   score: -151.6414423399617   numIters:  100
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episode: 7674   score: -152.56802267596515  numIters:  100
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episode: 7676   score: -150.76257972164169  numIters:  100
episode: 7677   score: -150.84164701428895  numIters:  100
episode: 7678   score: -150.58717873871743  numIters:  100
episode: 7679   score: -151.95007095697156  numIters:  100
episode: 7680   score: -150.98554554056355  numIters:  100
episode: 7681   score: -151.32281755469964  numIters:  100
episode: 7682   score: -150.43613553784624  numIters:  100
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episode: 7685   score: -150.19757021823867  numIters:  100
episode: 7686   score: -151.0579948781067   numIters:  100
episode: 7687   score: -149.6026487385826   numIters:  100
episode: 7688   score: -150.5606891271073   numIters:  100
episode: 7689   score: -150.23318162015832  numIters:  100
episode: 7690   score: -150.92873156917483  numIters:  100
episode: 7691   score: -150.02406607421187  numIters:  100
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episode: 7695   score: -142.7805878340596   numIters:  100
episode: 7696   score: -139.51548970895007  numIters:  100
episode: 7697   score: -145.34393750069648  numIters:  100
episode: 7698   score: -144.15742423965602  numIters:  100
episode: 7699   score: -145.40843894640426  numIters:  100
Testing:
Testing results:  score: -110.58578180896436  numIters:  100
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episode: 7701   score: -147.31391367358736  numIters:  100
episode: 7702   score: -143.1464106813659   numIters:  100
episode: 7703   score: -117.93222525600972  numIters:  100
episode: 7704   score: -147.3590309423006   numIters:  100
episode: 7705   score: -136.842281425713    numIters:  100
episode: 7706   score: -147.39529928103687  numIters:  100
episode: 7707   score: -147.66865937746303  numIters:  100
```

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episode: 7709   score: -146.50158524137586  numIters:  100
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episode: 7712   score: -145.47107291099795  numIters:  100
episode: 7713   score: -148.46076972018162  numIters:  100
episode: 7714   score: -144.5731708526667  numIters:  100
episode: 7715   score: -147.46771146865956  numIters:  100
episode: 7716   score: -149.74306181037386  numIters:  100
episode: 7717   score: -149.10013211055232  numIters:  100
episode: 7718   score: -149.85741100025757  numIters:  100
episode: 7719   score: -148.9696828290905  numIters:  100
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episode: 7722   score: -144.63819913807671  numIters:  100
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episode: 7724   score: -142.45158522133568  numIters:  100
episode: 7725   score: -144.2606814340407  numIters:  100
episode: 7726   score: -133.89746017653368  numIters:  100
episode: 7727   score: -141.76462383442455  numIters:  100
episode: 7728   score: -137.68055159535547  numIters:  100
episode: 7729   score: -142.7237637472518  numIters:  100
episode: 7730   score: -145.62045495611443  numIters:  100
episode: 7731   score: -145.47599689087465  numIters:  100
episode: 7732   score: -136.4162748938627  numIters:  100
episode: 7733   score: -134.1616891657648  numIters:  100
episode: 7734   score: -84.52863425016396  numIters:  100
episode: 7735   score: -62.77030182061681  numIters:  100
episode: 7736   score: -64.29166205439223  numIters:  100
episode: 7737   score: -53.31030802964734  numIters:  100
episode: 7738   score: -50.93786721125188  numIters:  100
episode: 7739   score: -50.800301755097315  numIters:  100
episode: 7740   score: -50.960378916910116  numIters:  100
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episode: 7742   score: -50.784187730724554  numIters:  100
episode: 7743   score: -50.5720949557854  numIters:  100
episode: 7744   score: -51.02431922196998  numIters:  100
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episode: 7746   score: -54.31680649331941  numIters:  100
episode: 7747   score: -51.10259022591249  numIters:  100
episode: 7748   score: -59.99709645578846  numIters:  100
episode: 7749   score: -59.219263253518626  numIters:  100
Testing:
```

Testing results: score: -54.14333373643861 numIters: 100
episode: 7750   score: -53.036530917813224 numIters: 100
episode: 7751   score: -55.065299977438215 numIters: 100
episode: 7752   score: -65.52354648341127 numIters: 100
episode: 7753   score: -142.2000987693464 numIters: 100
episode: 7754   score: -149.34399688699864 numIters: 100
episode: 7755   score: -151.05570183917595 numIters: 100
episode: 7756   score: -152.5709485939213 numIters: 100
episode: 7757   score: -152.55383085694888 numIters: 100
episode: 7758   score: -152.70577699565297 numIters: 100
episode: 7759   score: -153.8893408214096 numIters: 100
episode: 7760   score: -153.8379694534134 numIters: 100
episode: 7761   score: -153.84104444251835 numIters: 100
episode: 7762   score: -154.40653578460655 numIters: 100
episode: 7763   score: -154.16506480921805 numIters: 100
episode: 7764   score: -153.8433480499963 numIters: 100
episode: 7765   score: -153.3734934793903 numIters: 100
episode: 7766   score: -154.0775780541939 numIters: 100
episode: 7767   score: -153.31376301667515 numIters: 100
episode: 7768   score: -154.56451329398155 numIters: 100
episode: 7769   score: -154.3111384719435 numIters: 100
episode: 7770   score: -154.50264529872635 numIters: 100
episode: 7771   score: -153.7056794237834 numIters: 100
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episode: 7883   score: -139.50872597586405 numIters: 100
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episode: 7955   score: -51.13178320819336  numIters:  100
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Testing:
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episode: 8036   score: -50.377441658052405   numIters: 100
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Testing:
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episode: 8061   score: -151.76019332591204 numIters: 100
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episode: 8079   score: -155.72613582842573 numIters: 100
episode: 8080   score: -148.61141596872116 numIters: 100

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episode: 8098   score: -153.46673502546176  numIters: 100
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episode: 8138   score: -156.79398311991056 numIters: 100
episode: 8139   score: -154.52063179641485 numIters: 100
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episode: 8143   score: -155.12518775803917 numIters: 100
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episode: 8145   score: -155.43723553935658 numIters: 100
episode: 8146   score: -152.47286744299484 numIters: 100
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episode: 8148   score: -155.13502033660328 numIters: 100
episode: 8149   score: -149.16186401155383 numIters: 100
Testing:
Testing results: score: -73.6455145146623 numIters: 100
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episode: 8248 score: -88.38036554544377 numIters: 100
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Testing:
Testing results: score: -63.57589379780967 numIters: 100
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episode: 8340   score: -148.84308037689965   numIters: 100
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episode: 8421   score: -74.06632934274253 numIters: 100
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episode: 8431   score: -74.18814476270492 numIters: 100
episode: 8432   score: -70.33845235077149 numIters: 100
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episode: 8436   score: -72.65162547597058 numIters: 100
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episode: 8445   score: -71.1539538920234 numIters: 100
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episode: 8449   score: -69.03983889504666 numIters: 100
Testing:
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episode: 8451   score: -69.64901870438328 numIters: 100

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Testing:
Testing results: score: -67.33689581871032 numIters: 100
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Testing:
Testing results: score: -78.43846160671576 numIters: 100
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episode: 8589   score: -128.10173804411912 numIters: 100
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episode: 8595   score: -144.89704715487005 numIters: 100
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episode: 8598   score: -115.70370658988578 numIters: 100
episode: 8599   score: -144.44176425886516 numIters: 100
Testing:
Testing results: score: -134.99562714681232 numIters: 100
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Testing:
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Testing:
Testing results: score: -148.19722242638835   numIters: 100

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episode: 8742   score: -144.70357373956608  numIters:  100
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episode: 8743   score: -136.64727167149854   numIters: 100
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episode: 8745   score: -124.36962445762651   numIters: 100
episode: 8746   score: -143.94584006948853   numIters: 100
episode: 8747   score: -122.62857423088668   numIters: 100
episode: 8748   score: -125.35870800134944   numIters: 100
episode: 8749   score: -143.25777262854874   numIters: 100
Testing:
Testing results: score: -135.94018995279748   numIters: 100
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episode: 8753   score: -125.60000772084007   numIters: 100
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episode: 8756   score: -141.37867330852924   numIters: 100
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episode: 8768   score: -145.4205792669209   numIters: 100
episode: 8769   score: -145.31453851057375   numIters: 100
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episode: 8771   score: -141.10027157849123   numIters: 100
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episode: 8776   score: -145.7495471493271   numIters: 100
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episode: 8778   score: -146.55206419724962   numIters: 100
episode: 8779   score: -145.0369229896981   numIters: 100
episode: 8780   score: -61.68490606427723   numIters: 100
episode: 8781   score: -137.53392474252095   numIters: 100
episode: 8782   score: -143.69710287402108   numIters: 100
episode: 8783   score: -109.58703598226002   numIters: 100

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episode: 8787   score: -144.53835594366234 numIters: 100
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episode: 8797   score: -145.1503183023787 numIters: 100
episode: 8798   score: -147.09150223486233 numIters: 100
episode: 8799   score: -118.42572690280998 numIters: 100
Testing:
Testing results: score: -122.15706679610727 numIters: 100
episode: 8800   score: -134.7325998019841 numIters: 100
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episode: 8812   score: -141.4591821682271 numIters: 100
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episode: 8820   score: -78.30967555344407 numIters: 100
episode: 8821   score: -105.18128386292423 numIters: 100
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episode: 8830   score: -89.19938945681488   numIters: 100
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episode: 8832   score: -119.30503019632803   numIters: 100
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episode: 8842   score: -61.25325708177187   numIters: 100
episode: 8843   score: -129.44434914131236   numIters: 100
episode: 8844   score: -69.09681355171794   numIters: 100
episode: 8845   score: -64.39327792914638   numIters: 100
episode: 8846   score: -79.16841974749525   numIters: 100
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episode: 8849   score: -75.3273275849146   numIters: 100
Testing:
Testing results: score: -71.8878323431887   numIters: 100
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episode: 8851   score: -74.68841461136755   numIters: 100
episode: 8852   score: -61.29654183896276   numIters: 100
episode: 8853   score: -97.30694638802723   numIters: 100
episode: 8854   score: -60.85382254601158   numIters: 100
episode: 8855   score: -61.174492416406075   numIters: 100
episode: 8856   score: -63.961926104718785   numIters: 100
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episode: 8862   score: -79.64912704668106   numIters: 100
episode: 8863   score: -61.52833070190026   numIters: 100
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episode: 8865   score: -62.771654603377804   numIters: 100

episode: 8866 score: -60.8772947532446 numIters: 100
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episode: 8868 score: -64.83271383457532 numIters: 100
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episode: 8886 score: -74.63881441055416 numIters: 100
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episode: 8898 score: -66.13768381893028 numIters: 100
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Testing:
Testing results: score: -66.28606910446302 numIters: 100
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Testing:
Testing results: score: -72.0255563966593 numIters: 100
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episode: 8972   score: -71.52481706435414 numIters: 100
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episode: 8977   score: -74.29543597969369 numIters: 100
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episode: 8982   score: -78.32334746971135 numIters: 100
episode: 8983   score: -74.75942111477806 numIters: 100
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episode: 8987   score: -72.8790870932067 numIters: 100
episode: 8988   score: -78.25632431131169 numIters: 100
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episode: 8990   score: -71.99994736737484 numIters: 100

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episode: 8993   score: -75.75798941876971   numIters: 100
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episode: 8999   score: -74.71841482259907   numIters: 100
Testing:
Testing results: score: -75.76159610660159   numIters: 100
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episode: 9001   score: -112.57967252509206   numIters: 100
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episode: 9037   score: -80.08611263239327   numIters: 100
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episode: 9042   score: -124.05711283864325   numIters: 100
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episode: 9044   score: -121.52257000953252   numIters: 100
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episode: 9048   score: -72.40394615573962   numIters: 100
episode: 9049   score: -71.04894804150796   numIters: 100
Testing:
Testing results: score: -71.10123867492418   numIters: 100
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episode: 9051   score: -69.62312513058005   numIters: 100
episode: 9052   score: -68.52962760731766   numIters: 100
episode: 9053   score: -68.19631147368848   numIters: 100
episode: 9054   score: -66.71467320316502   numIters: 100
episode: 9055   score: -66.67058352994319   numIters: 100
episode: 9056   score: -66.41684390613511   numIters: 100
episode: 9057   score: -66.72190652204318   numIters: 100
episode: 9058   score: -65.85398305801579   numIters: 100
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episode: 9062   score: -63.944558931853074   numIters: 100
episode: 9063   score: -62.91985172129845   numIters: 100
episode: 9064   score: -63.65550706083453   numIters: 100
episode: 9065   score: -63.46414235228279   numIters: 100
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episode: 9076   score: -64.18435593198612   numIters: 100
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episode: 9096   score: -142.08946777999202   numIters: 100
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episode: 9098   score: -130.84640243868947   numIters: 100
episode: 9099   score: -112.76282994839258   numIters: 100
Testing:
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episode: 9106   score: -66.96670849197349   numIters: 100
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episode: 9118   score: -68.76404747629871 numIters: 100
episode: 9119   score: -66.8223256978232 numIters: 100
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episode: 9121   score: -72.6144432689607 numIters: 100
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episode: 9141   score: -128.8912506553094 numIters: 100
episode: 9142   score: -75.92272526193119 numIters: 100
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Testing:
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episode: 9154   score: -71.8373080847943 numIters: 100

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episode: 9225   score: -81.99926004276546   numIters: 100
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episode: 9231   score: -111.08443091784216   numIters: 100
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episode: 9233   score: -116.35060159835862   numIters: 100
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episode: 9235   score: -108.99276609087434   numIters: 100
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episode: 9242   score: -134.28691529508816 numIters: 100
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Testing:
Testing results: score: -117.99281732413539 numIters: 100
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episode: 9253   score: -120.90784068924526 numIters: 100
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episode: 9263   score: -73.01699347548349 numIters: 100
episode: 9264   score: -79.78474952700043 numIters: 100
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episode: 9270   score: -127.1781979869994 numIters: 100
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episode: 9275   score: -70.54431040073715 numIters: 100
episode: 9276   score: -63.79886794809012 numIters: 100
episode: 9277   score: -107.64068953083043 numIters: 100
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episode: 9287   score: -75.03821239281314 numIters: 100
episode: 9288   score: -69.14195507236023 numIters: 100
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episode: 9290   score: -60.870579094930655 numIters: 100
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episode: 9298   score: -97.54023526996207 numIters: 100
episode: 9299   score: -84.50149809983397 numIters: 100
Testing:
Testing results: score: -116.1240107788678 numIters: 100
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episode: 9301   score: -79.02826443918583 numIters: 100
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episode: 9306   score: -114.37048253996869 numIters: 100
episode: 9307   score: -92.34042265519439 numIters: 100
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episode: 9312   score: -107.00466078792032 numIters: 100
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episode: 9317   score: -86.08969004332988 numIters: 100
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episode: 9319   score: -76.1963471573098 numIters: 100
episode: 9320   score: -100.50544112958323 numIters: 100

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Testing:
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episode: 9361   score: -69.87580552455792  numIters:  100
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episode: 9388   score: -68.9959343838866   numIters:  100
episode: 9389   score: -87.42832937056195   numIters:  100
episode: 9390   score: -84.31541095213241   numIters:  100
episode: 9391   score: -83.77684180385357   numIters:  100
episode: 9392   score: -76.34146596740608   numIters:  100
episode: 9393   score: -80.07394094641688   numIters:  100
episode: 9394   score: -77.10452610689578   numIters:  100
episode: 9395   score: -110.71673010908908   numIters:  100
episode: 9396   score: -58.44581885429928   numIters:  100
episode: 9397   score: -89.48759718257979   numIters:  100
episode: 9398   score: -92.852205130223   numIters:  100
episode: 9399   score: -114.19350494281775   numIters:  100
Testing:
Testing results:  score: -114.88379248296145   numIters:  100
episode: 9400   score: -115.82930837355187   numIters:  100
episode: 9401   score: -107.10422822999593   numIters:  100
episode: 9402   score: -122.63771450609153   numIters:  100
```

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episode: 9404   score: -82.88215197824157   numIters:  100
episode: 9405   score: -120.21035211842825   numIters:  100
episode: 9406   score: -107.46987162803647   numIters:  100
episode: 9407   score: -70.67197913827461   numIters:  100
episode: 9408   score: -86.66208530397479   numIters:  100
episode: 9409   score: -69.61391035911707   numIters:  100
episode: 9410   score: -74.60479915114193   numIters:  100
episode: 9411   score: -63.32824622369476   numIters:  100
episode: 9412   score: -59.86020734071471   numIters:  100
episode: 9413   score: -62.26747808680758   numIters:  100
episode: 9414   score: -68.39402294659844   numIters:  100
episode: 9415   score: -118.72932114090943   numIters:  100
episode: 9416   score: -132.40929475292475   numIters:  100
episode: 9417   score: -133.0973062139905   numIters:  100
episode: 9418   score: -124.51968774376836   numIters:  100
episode: 9419   score: -126.4966776064467   numIters:  100
episode: 9420   score: -112.54105020509405   numIters:  100
episode: 9421   score: -133.0828874887564   numIters:  100
episode: 9422   score: -129.74684128184492   numIters:  100
episode: 9423   score: -123.81486921256817   numIters:  100
episode: 9424   score: -131.0288152600849   numIters:  100
episode: 9425   score: -131.00042962240354   numIters:  100
episode: 9426   score: -126.10190240866265   numIters:  100
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episode: 9431   score: -107.50275189905449   numIters:  100
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episode: 9436   score: -97.42070067123   numIters:  100
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episode: 9438   score: -90.66603076431777   numIters:  100
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episode: 9440   score: -86.10088701399913   numIters:  100
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episode: 9444   score: -122.65884430436928   numIters:  100
episode: 9445   score: -99.54986628738328   numIters:  100
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episode: 9447   score: -72.40012245050008 numIters: 100
episode: 9448   score: -60.54577995849969 numIters: 100
episode: 9449   score: -59.081246064687186 numIters: 100
Testing:
Testing results: score: -54.49129958982755 numIters: 100
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episode: 9451   score: -55.20349678973009 numIters: 100
episode: 9452   score: -56.23797592647417 numIters: 100
episode: 9453   score: -53.779988364203604 numIters: 100
episode: 9454   score: -52.07141942464665 numIters: 100
episode: 9455   score: -55.14485322119071 numIters: 100
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episode: 9457   score: -55.391849325285854 numIters: 100
episode: 9458   score: -61.05950516948851 numIters: 100
episode: 9459   score: -63.47065348331167 numIters: 100
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episode: 9464   score: -105.54391472315278 numIters: 100
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episode: 9466   score: -129.2320385369742 numIters: 100
episode: 9467   score: -123.0943174271841 numIters: 100
episode: 9468   score: -125.85878433509914 numIters: 100
episode: 9469   score: -122.67715977518168 numIters: 100
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episode: 9472   score: -96.36397323818986 numIters: 100
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episode: 9474   score: -121.76563399971565 numIters: 100
episode: 9475   score: -132.00332900824287 numIters: 100
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episode: 9477   score: -130.89247009853798 numIters: 100
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episode: 9479   score: -118.5106756611338 numIters: 100
episode: 9480   score: -104.05489775262369 numIters: 100
episode: 9481   score: -102.20900906410452 numIters: 100
episode: 9482   score: -108.03615614838317 numIters: 100
episode: 9483   score: -116.90534041668488 numIters: 100
episode: 9484   score: -82.23489164803829 numIters: 100
episode: 9485   score: -74.10690754777725 numIters: 100
episode: 9486   score: -71.89100254802172 numIters: 100

episode: 9487   score: -64.49837252182803 numIters: 100
episode: 9488   score: -58.43412011374742 numIters: 100
episode: 9489   score: -57.93090665028152 numIters: 100
episode: 9490   score: -62.63137056937852 numIters: 100
episode: 9491   score: -52.19181288272973 numIters: 100
episode: 9492   score: -55.34597199418983 numIters: 100
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episode: 9494   score: -55.04785895761873 numIters: 100
episode: 9495   score: -55.33388814070909 numIters: 100
episode: 9496   score: -56.16032415494532 numIters: 100
episode: 9497   score: -55.82662040590125 numIters: 100
episode: 9498   score: -57.12752239272409 numIters: 100
episode: 9499   score: -62.22033908445293 numIters: 100
Testing:
Testing results: score: -66.07352187769328 numIters: 100
episode: 9500   score: -66.1074506492837 numIters: 100
episode: 9501   score: -58.24989080496291 numIters: 100
episode: 9502   score: -96.09574716191123 numIters: 100
episode: 9503   score: -63.15456049197673 numIters: 100
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episode: 9505   score: -69.01967004423642 numIters: 100
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episode: 9507   score: -77.85855385757077 numIters: 100
episode: 9508   score: -97.92777227317812 numIters: 100
episode: 9509   score: -97.67763302868964 numIters: 100
episode: 9510   score: -82.38677237302609 numIters: 100
episode: 9511   score: -124.24649114033876 numIters: 100
episode: 9512   score: -80.24910952155385 numIters: 100
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episode: 9514   score: -102.53424316238817 numIters: 100
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episode: 9517   score: -69.69713426156903 numIters: 100
episode: 9518   score: -116.33005129802986 numIters: 100
episode: 9519   score: -90.02810579354106 numIters: 100
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episode: 9523   score: -121.62556892000573 numIters: 100
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episode: 9527   score: -119.02862421470842 numIters: 100

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episode: 9531   score: -129.17159802819907 numIters: 100
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episode: 9533   score: -81.05426633275712 numIters: 100
episode: 9534   score: -77.97882740000688 numIters: 100
episode: 9535   score: -76.74832327118754 numIters: 100
episode: 9536   score: -76.47007282770721 numIters: 100
episode: 9537   score: -62.44694702406043 numIters: 100
episode: 9538   score: -78.94650154952625 numIters: 100
episode: 9539   score: -75.74459913290596 numIters: 100
episode: 9540   score: -80.27538835757649 numIters: 100
episode: 9541   score: -111.76941582587347 numIters: 100
episode: 9542   score: -102.16089117573073 numIters: 100
episode: 9543   score: -101.16468110901181 numIters: 100
episode: 9544   score: -72.49902309242268 numIters: 100
episode: 9545   score: -81.95324321228138 numIters: 100
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episode: 9548   score: -97.85761411282925 numIters: 100
episode: 9549   score: -117.58450865517192 numIters: 100
Testing:
Testing results: score: -108.91479027198517 numIters: 100
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episode: 9554   score: -97.29970554491122 numIters: 100
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episode: 9566   score: -122.72204850038484 numIters: 100
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episode: 9568   score: -127.63189468302191 numIters: 100

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episode: 9571   score: -115.29050363717573 numIters: 100
episode: 9572   score: -127.62081962102054 numIters: 100
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episode: 9574   score: -136.4492021137486 numIters: 100
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episode: 9576   score: -125.74706592426253 numIters: 100
episode: 9577   score: -126.9794125519462 numIters: 100
episode: 9578   score: -134.86890780198968 numIters: 100
episode: 9579   score: -129.99554241299066 numIters: 100
episode: 9580   score: -125.1984953573531 numIters: 100
episode: 9581   score: -125.98291175324907 numIters: 100
episode: 9582   score: -131.7869831145578 numIters: 100
episode: 9583   score: -128.48527260581415 numIters: 100
episode: 9584   score: -135.5213808166157 numIters: 100
episode: 9585   score: -135.4992590821809 numIters: 100
episode: 9586   score: -117.92588431162184 numIters: 100
episode: 9587   score: -77.29222247189126 numIters: 100
episode: 9588   score: -76.15975992828677 numIters: 100
episode: 9589   score: -122.34923861329823 numIters: 100
episode: 9590   score: -133.164425177679 numIters: 100
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episode: 9592   score: -127.43929660258813 numIters: 100
episode: 9593   score: -123.72674723508463 numIters: 100
episode: 9594   score: -124.14493691936833 numIters: 100
episode: 9595   score: -126.8422540541915 numIters: 100
episode: 9596   score: -131.97935680488965 numIters: 100
episode: 9597   score: -133.32346175005108 numIters: 100
episode: 9598   score: -131.79017571201098 numIters: 100
episode: 9599   score: -129.00052238678708 numIters: 100
Testing:
Testing results: score: -131.68814742313123 numIters: 100
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episode: 9601   score: -134.47471542885376 numIters: 100
episode: 9602   score: -132.5838375171258 numIters: 100
episode: 9603   score: -131.63298354663073 numIters: 100
episode: 9604   score: -128.79797400014857 numIters: 100
episode: 9605   score: -128.02717097124116 numIters: 100
episode: 9606   score: -135.44986014728687 numIters: 100
episode: 9607   score: -142.2538305066698 numIters: 100
episode: 9608   score: -126.86765700218136 numIters: 100
episode: 9609   score: -136.8537687471046 numIters: 100

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episode: 9611   score: -129.90685366600508  numIters:  100
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episode: 9613   score: -120.6391774787092  numIters:  100
episode: 9614   score: -129.54397386937595  numIters:  100
episode: 9615   score: -107.87547932903496  numIters:  100
episode: 9616   score: -83.81010659933031  numIters:  100
episode: 9617   score: -112.70491303439502  numIters:  100
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episode: 9622   score: -136.08038682322177  numIters:  100
episode: 9623   score: -121.12086200671726  numIters:  100
episode: 9624   score: -128.17560850464798  numIters:  100
episode: 9625   score: -124.3988353650946  numIters:  100
episode: 9626   score: -121.65545133129388  numIters:  100
episode: 9627   score: -120.62563790798163  numIters:  100
episode: 9628   score: -94.82477925548599  numIters:  100
episode: 9629   score: -128.68644994559048  numIters:  100
episode: 9630   score: -129.20072472494988  numIters:  100
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episode: 9632   score: -123.4645414071123  numIters:  100
episode: 9633   score: -132.7849831388219  numIters:  100
episode: 9634   score: -130.81102035189778  numIters:  100
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episode: 9636   score: -128.02071679708828  numIters:  100
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episode: 9638   score: -135.08933608546423  numIters:  100
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episode: 9640   score: -123.70041358159243  numIters:  100
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episode: 9647   score: -126.81278621130438  numIters:  100
episode: 9648   score: -134.6297633665541  numIters:  100
episode: 9649   score: -127.64250185865313  numIters:  100
Testing:
Testing results:  score: -134.5798304490814  numIters:  100
episode: 9650   score: -122.99673798485624  numIters:  100
```

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episode: 9652   score: -132.86707358929107  numIters:  100
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episode: 9654   score: -128.37503164600054  numIters:  100
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episode: 9664   score: -131.32242582394625  numIters:  100
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episode: 9671   score: -121.09156639146536  numIters:  100
episode: 9672   score: -117.20938682509778  numIters:  100
episode: 9673   score: -108.83262512102982  numIters:  100
episode: 9674   score: -106.00620723344944  numIters:  100
episode: 9675   score: -64.6883203098853  numIters:  100
episode: 9676   score: -76.42968000655148  numIters:  100
episode: 9677   score: -114.54439695287216  numIters:  100
episode: 9678   score: -103.26914761103869  numIters:  100
episode: 9679   score: -97.75034628595596  numIters:  100
episode: 9680   score: -106.22474693833615  numIters:  100
episode: 9681   score: -119.89296395262875  numIters:  100
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episode: 9683   score: -118.85757034160638  numIters:  100
episode: 9684   score: -118.94231529728367  numIters:  100
episode: 9685   score: -119.00250295521978  numIters:  100
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episode: 9687   score: -131.67839518339812  numIters:  100
episode: 9688   score: -131.82804467654262  numIters:  100
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episode: 9690   score: -125.94208023759639  numIters:  100
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episode: 9693   score: -127.64348099463405  numIters:  100
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episode: 9695   score: -117.11613163191149 numIters: 100
episode: 9696   score: -115.98649399488465 numIters: 100
episode: 9697   score: -127.25152142504659 numIters: 100
episode: 9698   score: -124.7539605405779 numIters: 100
episode: 9699   score: -117.36012047428737 numIters: 100
Testing:
Testing results: score: -125.89873547090046 numIters: 100
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episode: 9701   score: -109.48773282595134 numIters: 100
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episode: 9748   score: -138.44587503379466 numIters: 100
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Testing:
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episode: 9782 score: -120.06679038116908 numIters: 100
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episode: 9787 score: -122.9999920899673 numIters: 100
episode: 9788 score: -113.20526861052478 numIters: 100
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episode: 9790 score: -120.14284819756926 numIters: 100
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episode: 9793 score: -129.70009720641795 numIters: 100
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episode: 9799 score: -121.40052263764038 numIters: 100
Testing:
Testing results: score: -128.4172574223446 numIters: 100
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episode: 9801 score: -119.19522224356618 numIters: 100
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episode: 9814 score: -130.43940384365908 numIters: 100
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episode: 9839   score: -135.4323861445599   numIters: 100
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Testing:
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episode: 9874   score: -142.9568134710306 numIters: 100
episode: 9875   score: -139.4173668696931 numIters: 100
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episode: 9877   score: -136.99724575104582 numIters: 100
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episode: 9881   score: -143.18307151184695 numIters: 100
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episode: 9883   score: -137.41700808023964 numIters: 100
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episode: 9885   score: -140.96784203985027 numIters: 100
episode: 9886   score: -139.87575955069335 numIters: 100
episode: 9887   score: -137.6410096573028 numIters: 100
episode: 9888   score: -135.09369257342127 numIters: 100
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episode: 9890   score: -142.34809514064602 numIters: 100
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episode: 9892   score: -140.3344125656134 numIters: 100
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episode: 9895   score: -141.45546994382863 numIters: 100
episode: 9896   score: -137.27006620575747 numIters: 100
episode: 9897   score: -134.86904510008625 numIters: 100
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episode: 9899   score: -138.03632601839797 numIters: 100
Testing:

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Testing results:  score: -140.15385030226918  numIters:  100
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episode: 9901   score: -139.81669809612754  numIters:  100
episode: 9902   score: -137.12815335335205  numIters:  100
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episode: 9904   score: -139.4091844967137  numIters:  100
episode: 9905   score: -140.14940870815252  numIters:  100
episode: 9906   score: -137.79435230906032  numIters:  100
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episode: 9914   score: -134.35018900429918  numIters:  100
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episode: 9918   score: -137.7762184250773  numIters:  100
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episode: 9933   score: -140.44264535406822  numIters:  100
episode: 9934   score: -136.4245619610566  numIters:  100
episode: 9935   score: -142.93581530929896  numIters:  100
episode: 9936   score: -138.6450758322189  numIters:  100
episode: 9937   score: -138.31808715977633  numIters:  100
episode: 9938   score: -141.39586588652278  numIters:  100
episode: 9939   score: -138.0025535019931  numIters:  100
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episode: 9941   score: -140.3481726790128  numIters:  100
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episode: 9949   score: -141.51747804490174 numIters: 100
Testing:
Testing results: score: -143.2392287288433 numIters: 100
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episode: 9981   score: -140.58838896396392 numIters: 100
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episode: 10022   score: -138.97900799711434 numIters: 100
episode: 10023   score: -140.41218206417648 numIters: 100

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episode: 10048   score: -134.98535666153265 numIters: 100
episode: 10049   score: -135.91321767157137 numIters: 100
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episode: 10368   score: -138.62205935249114  numIters:  100
episode: 10369   score: -140.64446406135923  numIters:  100
episode: 10370   score: -140.17133169288132  numIters:  100
episode: 10371   score: -144.50450246097907  numIters:  100
episode: 10372   score: -141.88493076352017  numIters:  100
episode: 10373   score: -144.92961663286496  numIters:  100
episode: 10374   score: -144.7999369078496  numIters:  100
episode: 10375   score: -146.26478909342865  numIters:  100
episode: 10376   score: -141.4024726400899  numIters:  100
Traceback (most recent call last):
  File "/Users/seantao/Desktop/703FinalProject/a2cDouble.py", line 221, in
<module>
    agent.train_model(state, action, reward, next_state, done, oldCritic, oldXActor,
oldYActor)
  File "/Users/seantao/Desktop/703FinalProject/a2cDouble.py", line 180, in
train_model
    self.optimizer[0]([state, [[action[0]]], advantages])
  File "/Users/seantao/anaconda/envs/deeplearning/lib/python3.5/site-packages/
keras/backend/tensorflow_backend.py", line 2268, in __call__
    **self.session_kwargs)
  File "/Users/seantao/anaconda/envs/deeplearning/lib/python3.5/site-packages/
tensorflow/python/client/session.py", line 789, in run
    run_metadata_ptr)
  File "/Users/seantao/anaconda/envs/deeplearning/lib/python3.5/site-packages/
tensorflow/python/client/session.py", line 997, in _run
    feed_dict_string, options, run_metadata)
  File "/Users/seantao/anaconda/envs/deeplearning/lib/python3.5/site-packages/
tensorflow/python/client/session.py", line 1132, in _do_run
    target_list, options, run_metadata)
```

```
  File "/Users/seantao/anaconda/envs/deeplearning/lib/python3.5/site-packages/
tensorflow/python/client/session.py", line 1139, in _do_call
    return fn(*args)
  File "/Users/seantao/anaconda/envs/deeplearning/lib/python3.5/site-packages/
tensorflow/python/client/session.py", line 1121, in _run_fn
    status, run_metadata)
KeyboardInterrupt
Exception ignored in: <bound method BaseSession.__del__ of
<tensorflow.python.client.session.Session object at 0x116864358>>
Traceback (most recent call last):
  File "/Users/seantao/anaconda/envs/deeplearning/lib/python3.5/site-packages/
tensorflow/python/client/session.py", line 595, in __del__
TypeError: 'NoneType' object is not callable

Process finished with exit code 1
```