```
Last login: Wed Apr 1 19:24:57 on ttys001
Run-Mac:~ mac$ cd ~/.ssh
Run-Mac:.ssh mac$ ssh -i "Runzhe_Song_0110.pem" ubuntu@ec2-34-225-194-35.compute-1.amazonaws.com
The authenticity of host 'ec2-34-225-194-35.compute-1.amazonaws.com (34.225.194.35)' can't be established.
ECDSA key fingerprint is SHA256:VWKXaSGV1iogyct+3ehki/HDZJjpboMzaBeWVnPHD1Y.
Are you sure you want to continue connecting (yes/no)? yes Warning: Permanently added 'ec2-34-225-194-35.compute-1.amazonaws.com,34.225.194.35' (ECDSA) to the list of known hosts.
Welcome to Ubuntu 18.04.3 LTS (GNU/Linux 4.15.0-1063-aws x86_64)
 * Documentation: https://help.ubuntu.com

* Management: https://landscape.canonical.com
                    https://ubuntu.com/advantage
 * Support:
  System information as of Thu Apr 2 00:42:42 UTC 2020
  System load: 0.0 Processes: Usage of /: 56.9% of 15.45GB Users logged in:
                                                          364
                                    IP address for ens5: 172.31.64.18
  Memory usage: 0%
  Swap usage:
 * Kubernetes 1.18 GA is now available! See https://microk8s.io for docs or
   install it with:
     sudo snap install microk8s --channel=1.18 --classic
 * Multipass 1.1 adds proxy support for developers behind enterprise
   firewalls. Rapid prototyping for cloud operations just got easier.
     https://multipass.run/
 * Canonical Livepatch is available for installation.
     Reduce system reboots and improve kernel security. Activate at:
     https://ubuntu.com/livepatch
53 packages can be updated.
0 updates are security updates.
Last login: Wed Apr 1 20:30:39 2020 from 107.13.161.147
20:44, 04/01; num of cores:36
Basic\ setting: [T,\ sd\_0,\ sd\_D,\ sd\_R,\ sd\_u\_0,\ w\_0,\ w\_A,\ [M\_in\_R,\ mean\_reversion,\ pois0,\ simple,\ u\_0\_u\_D]]\ =\ [None,\ 10,\ 10,\ 0.3,\ 0.5,\ 1]
, [True, False, True, False, 10]]
[pattern_seed, day] = [2, 7]
max(u_0) = 197.9
0_threshold = 70
means of Order:
87.8 97.8 52.4 162.7 58.1
77.3 115.7 68.5 72.4 75.7
117.4 197.9 100.7 71.1 116.9
83.2 98.9 141.5 79.5 99.8
76.4 94.9 107.4 73.9 89.9
target policy:
1 1 0 1 0
1 1 0 1 1
1 1 1 1 1
1 1 1 1 1
1 1 1 1 1
number of reward locations: 22
0_{threshold} = 80
target policy:
1 1 0 1 0
0 1 0 0 0
1 1 1 0 1
1 1 1 0 1
0 1 1 0 1
```

```
number of reward locations: 15
 0 \text{ threshold} = 90
 target policy:
0 1 0 1 0
 01000
1 1 1 0 1
 0 1 1 0 1
 0 1 1 0 0
 number of reward locations: 12
 0_{threshold} = 100
 target policy:
 00010
 0 1 0 0 0
 1 1 1 0 1
 0 0 1 0 0
 0 0 1 0 0
 number of reward locations: 8
 0_threshold = 110
 target policy:
 00010
 0 1 0 0 0
1 1 0 0 1
 00100
00000
 number of reward locations: 6
 Rep 1 DONE; Rep 2 DONE; Rep 3 DONE; Rep 4 DONE; Rep 5 DONE; Rep 6 DONE; Rep 7 DONE; Rep 8 DONE; Rep 9 DONE; Rep 10 DONE; Rep 11 DONE; Re
p 12 DONE; Rep 13 DONE; Rep 14 DONE; Rep 15 DONE; Rep 16 DONE; Rep 17 DONE; Rep 18 DONE; Rep 19 DONE; Rep 20 DONE; Rep 21 DONE; Rep 22 DONE; Rep 23 DONE; Rep 24 DONE; Rep 25 DONE; Rep 26 DONE; Rep 27 DONE; Rep 28 DONE; Rep 29 DONE; Rep 30 DONE; Rep 31 DONE; Rep 32 DONE; Rep 32 DONE; Rep 32 DONE; Rep 34 DONE; Rep 35 DONE; Rep 36 DONE; Rep 37 DONE; Rep 38 DONE; Rep 38 DONE; Rep 39 
ONE; Rep 23 DONE; Rep 24 DONE; Rep 25 DONE; Rep 26 DONE; Rep 27 DONE; Rep 28 DONE; Rep 29 DONE; Rep 30 DONE; Rep 31 DONE; Rep 32 DONE; Rep 33 DONE; Rep 33 DONE; Rep 36 DONE; Rep 36 DONE; Rep 42 DONE; Rep 42 DONE; Rep 44 DONE; Rep 45 DONE; Rep 45 DONE; Rep 45 DONE; Rep 46 DONE; Rep 47 DONE; Rep 48 DONE; Rep 50 DONE; Rep 50 DONE; Rep 52 DONE; Rep 52 DONE; Rep 53 DONE; Rep 54 DONE; Rep 55 DONE; Rep 56 DONE; Rep 57 DONE; Rep 58 DONE; Rep 58 DONE; Rep 69 DONE; Rep 60 DONE; Rep 61 DONE; Rep 62 DONE; Rep 63 DONE; Rep 64 DONE; Rep 65 DONE; Rep 65 DONE; Rep 65 DONE; Rep 67 DONE; Rep 68 DONE; Rep 69 DONE; Rep 70 DONE; Rep 71 DONE; Rep 72 DONE; Rep 73 DONE; Rep 74 DONE; Rep 75 DONE; Rep 76 DONE; Rep 77 DONE; Rep 78 DONE; Rep 79 DONE; Rep 80 DONE; Rep 81 DONE; Rep 82 DONE; Rep 83 DONE; Rep 84 DONE; Rep 85 DONE; Rep 86 DONE; Rep 87 DONE; Rep 88 DONE; Rep 89 DONE; Rep 99 DONE; Rep 90 DONE; Rep 91 DONE; Rep 92 DONE; Rep 93 DONE; Rep 94 DONE; Rep 95 DONE; Rep 96 DONE; Rep 97 DONE; Rep 98 DONE; Rep 99 DONE; Rep 100 DONE;
 Value of Behaviour policy:60.784
 0_{threshold} = 70
MC for this TARGET: [69.323, 0.132]
 [DR/QV/IS]; [DR_NO_MARL, DR_NO_MF, V_behav]
bias:[[2.23, 2.11, 1.41]][[5.09, -69.32, -8.54]]
Std:[[0.79, 0.8, 0.45]][[0.34, 0.0, 0.23]]
MSE:[[2.37, 2.26, 1.48]][[5.1, 69.32, 8.54]]
MSE(-DR):[[0.0, -0.11, -0.89]][[2.73, 66.95, 6.17]]
 -----
 0_{threshold} = 80
 MC for this TARGET: [70.884, 0.141]
 [DR/QV/IS]; [DR_NO_MARL, DR_NO_MF, V_behav]
bias:[[0.28, 0.13, -1.01]][[1.22, -70.88, -10.1]]
 std:[[0.62, 0.63, 0.37]][[0.38, 0.0, 0.23]]
MSE:[[0.68, 0.64, 1.08]][[1.28, 70.88, 10.1]]
 MSE(-DR):[[0.0, -0.04, 0.4]][[0.6, 70.2, 9.42]]
  ___
 0_{threshold} = 90
 MC for this TARGET:[69.371, 0.133]
[DR/QV/IS]; [DR_NO_MARL, DR_NO_MF, V_behav]
bias:[[-0.14, -0.28, -1.06]][[-0.55, -69.37, -8.59]]
Std:[[0.64, 0.65, 0.42]][[0.36, 0.0, 0.23]]
MSE:[[0.66, 0.71, 1.14]][[0.66, 69.37, 8.59]]
MSE(-DR):[[0.0, 0.05, 0.48]][[0.0, 68.71, 7.93]]
```

ubuntu@ip-172-31-64-18:~\$