

0

```

-----
Value of Behaviour policy:60.785
O_threshold = 90
MC for this TARGET:[69.368, 0.065]
  [DR/QV/IS]; [DR_NO_MARL, DR_NO_MF, V_behav]
bias:[[-0.06, -0.23, -0.85]][[-0.4, -15523.26, -8.58]]
std:[[0.38, 0.38, 0.26]][[0.24, 283722.07, 0.18]]
MSE:[[0.38, 0.44, 0.89]][[0.47, 284146.41, 8.58]]
MSE(-DR):[[0.0, 0.06, 0.51]][[0.09, 284146.03, 8.2]]
***
=====
O_threshold = 100
MC for this TARGET:[68.936, 0.073]
  [DR/QV/IS]; [DR_NO_MARL, DR_NO_MF, V_behav]
bias:[[-2.73, -2.85, -3.26]][[-4.71, 14122.99, -8.15]]
std:[[0.4, 0.41, 0.25]][[0.24, 105692.89, 0.18]]
MSE:[[2.76, 2.88, 3.27]][[4.72, 106632.29, 8.15]]
MSE(-DR):[[0.0, 0.12, 0.51]][[1.96, 106629.53, 5.39]]
***
=====
O_threshold = 110
MC for this TARGET:[70.48, 0.08]
  [DR/QV/IS]; [DR_NO_MARL, DR_NO_MF, V_behav]
bias:[[-6.4, -6.48, -6.71]][[-8.71, -15331.21, -9.7]]
std:[[0.5, 0.52, 0.31]][[0.26, 145298.27, 0.18]]
MSE:[[6.42, 6.5, 6.72]][[8.71, 146104.87, 9.7]]
MSE(-DR):[[0.0, 0.08, 0.3]][[2.29, 146098.45, 3.28]]
***
=====
***** THIS SETTING IS GOOD *****
[[3.8000e-01 4.4000e-01 8.9000e-01 4.7000e-01 2.8415e+05 8.5800e+
  [2.7600e+00 2.8800e+00 3.2700e+00 4.7200e+00 1.0663e+05 8.1500e+
  [6.4200e+00 6.5000e+00 6.7200e+00 8.7100e+00 1.4610e+05 9.7000e+

time spent until now: 77.6 mins

```

10

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Value of Behaviour policy:60.786
O_threshold = 90
MC for this TARGET:[69.371, 0.133]
  [DR/QV/IS]; [DR_NO_MARL, DR_NO_MF, V_behav]
bias:[[-0.07, -0.25, -0.83]][[-0.42, -22695.38, -8.59]]
std:[[0.64, 0.65, 0.41]][[0.37, 226447.38, 0.23]]
MSE:[[0.64, 0.7, 0.93]][[0.56, 227581.85, 8.59]]
MSE(-DR):[[0.0, 0.06, 0.29]][[-0.08, 227581.21, 7.95]]
=====
O_threshold = 100
MC for this TARGET:[68.94, 0.132]
  [DR/QV/IS]; [DR_NO_MARL, DR_NO_MF, V_behav]
bias:[[-2.71, -2.84, -3.24]][[-4.71, 14257.49, -8.15]]
std:[[0.67, 0.67, 0.38]][[0.35, 127247.41, 0.23]]
MSE:[[2.79, 2.92, 3.26]][[4.72, 128043.66, 8.15]]
MSE(-DR):[[0.0, 0.13, 0.47]][[1.93, 128040.87, 5.36]]
***
=====
O_threshold = 110
MC for this TARGET:[70.484, 0.135]
  [DR/QV/IS]; [DR_NO_MARL, DR_NO_MF, V_behav]
bias:[[-6.41, -6.51, -6.7]][[-8.7, -20626.11, -9.7]]
std:[[0.66, 0.67, 0.43]][[0.34, 128180.61, 0.23]]
MSE:[[6.44, 6.54, 6.71]][[8.71, 129829.52, 9.7]]
MSE(-DR):[[0.0, 0.1, 0.27]][[2.27, 129823.08, 3.26]]
***
=====
[[6.4000e-01 7.0000e-01 9.3000e-01 5.6000e-01 2.2758e+05 8.5900e+
[2.7900e+00 2.9200e+00 3.2600e+00 4.7200e+00 1.2804e+05 8.1500e+
[6.4400e+00 6.5400e+00 6.7100e+00 8.7100e+00 1.2983e+05 9.7000e+

time spent until now: 76.0 mins

```

 Value of Behaviour policy:60.787

O_threshold = 90

MC for this TARGET:[69.375, 0.232]

[DR/QV/IS]; [DR_NO_MARL, DR_NO_MF, V_behav]

bias:[[-0.09, -0.27, -0.83]][[-0.42, -21148.37, -8.59]]

std:[[1.12, 1.11, 0.7]][[0.59, 179640.01, 0.31]]

MSE:[[1.12, 1.14, 1.09]][[0.72, 180880.59, 8.6]]

MSE(-DR):[[0.0, 0.02, -0.03]][[-0.4, 180879.47, 7.48]]

=====

O_threshold = 100

MC for this TARGET:[68.943, 0.229]

[DR/QV/IS]; [DR_NO_MARL, DR_NO_MF, V_behav]

bias:[[-2.7, -2.85, -3.21]][[-4.71, 11609.07, -8.16]]

std:[[1.1, 1.09, 0.62]][[0.54, 131425.47, 0.31]]

MSE:[[2.92, 3.05, 3.27]][[4.74, 131937.2, 8.17]]

MSE(-DR):[[0.0, 0.13, 0.35]][[1.82, 131934.28, 5.25]]

=====

O_threshold = 110

MC for this TARGET:[70.487, 0.229]

[DR/QV/IS]; [DR_NO_MARL, DR_NO_MF, V_behav]

bias:[[-6.45, -6.56, -6.69]][[-8.69, -25811.08, -9.7]]

std:[[1.08, 1.07, 0.7]][[0.52, 207432.13, 0.31]]

MSE:[[6.54, 6.65, 6.73]][[8.71, 209031.82, 9.7]]

MSE(-DR):[[0.0, 0.11, 0.19]][[2.17, 209025.28, 3.16]]

=====

[[1.1200e+00 1.1400e+00 1.0900e+00 7.2000e-01 1.8088e+05 8.6000e+

2.9200e+00 3.0500e+00 3.2700e+00 4.7400e+00 1.3194e+05 8.1700e+

6.5400e+00 6.6500e+00 6.7300e+00 8.7100e+00 2.0903e+05 9.7000e+

time spent until now: 75.4 mins