Table 1: Performance Results for Barrier$\backslash_1 0Dn_m u0.1Problem$

Optimizer	Mean Final Value	Std Dev	Best Value	Worst Value	Mean Func Evals	Success Rate (%)	Mean Time (s)
GD	2.00	4.50×10^{-11}	2.00	2.00	304.9	0.0	0.008
L-BFGS-Conservative	2.00	1.37×10^{-8}	2.00	2.00	379.6	0.0	0.010
GD-WeightDecay	2.00	1.83×10^{-5}	2.00	2.00	49.3	0.0	0.002
Trust Region-Adaptive	2.12	1.43×10^{-1}	2.00	2.43	103.5	0.0	0.001
Adam-WeightDecay	2.20	7.11×10^{-2}	2.08	2.38	502.0	0.0	0.012
Trust Region-Standard	2.36	4.42×10^{-1}	2.00	3.31	31.4	0.0	0.000
GD-Nesterov	2.50	5.28×10^{-2}	2.43	2.64	21.0	0.0	0.001
Adam-Fast	2.60	8.53×10^{-2}	2.39	2.79	31.7	0.0	0.001
GD-Momentum	3.37	1.95×10^{-1}	2.94	3.69	21.2	0.0	0.001
Adam	6.04	4.52×10^{-1}	5.36	7.06	502.0	0.0	0.011
Adam-AMSGrad	6.13	3.97×10^{-1}	5.48	6.95	502.0	0.0	0.013
Trust Region-Conservative	7.92	7.30×10^{-1}	6.57	9.16	602.0	0.0	0.004