Table 1: Performance Results for Styblinski Tang<br/>\\$\_10DProblem

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Optimizer	Mean Final Value	Std Dev	Best Value	Worst Value	Mean Func Evals	Success Rate (%)	Mean Time (s)
GD	$-3.80 \times 10^{2}$	$1.15 \times 10^{1}$	$-3.92 \times 10^{2}$	$-3.49 \times 10^{2}$	141.7	42.5	0.004
Adam-Fast	$-3.64 \times 10^{2}$	$1.23 \times 10^{1}$	$-3.77 \times 10^{2}$	$-3.37 \times 10^{2}$	72.5	42.5	0.002
L-BFGS	$-3.76 \times 10^{2}$	$1.22 \times 10^{1}$	$-3.92 \times 10^{2}$	$-3.46 \times 10^{2}$	195.3	40.0	0.003
QQN-CubicQuadraticInterpolation	$-3.71 \times 10^{2}$	$2.24 \times 10^{1}$	$-3.92 \times 10^{2}$	$-2.96 \times 10^{2}$	318.6	37.5	0.012
GD-WeightDecay	$-3.80 \times 10^{2}$	$1.12 \times 10^{1}$	$-3.92 \times 10^{2}$	$-3.49 \times 10^{2}$	94.7	35.0	0.003
GD-Nesterov	$-3.79 \times 10^{2}$	$1.02 \times 10^{1}$	$-3.92 \times 10^{2}$	$-3.49 \times 10^{2}$	80.9	30.0	0.003
QQN-StrongWolfe	$-3.77 \times 10^{2}$	$1.64 \times 10^{1}$	$-3.92 \times 10^{2}$	$-3.21 \times 10^{2}$	323.4	30.0	0.010
QQN-Bisection-2	$-3.80 \times 10^{2}$	$1.03 \times 10^{1}$	$-3.92 \times 10^{2}$	$-3.63 \times 10^{2}$	297.7	25.0	0.007
QQN-MoreThuente	$-3.49 \times 10^{2}$	$5.91 \times 10^{1}$	$-3.92 \times 10^{2}$	$-1.60 \times 10^{2}$	357.4	25.0	0.010
QQN-GoldenSection	$-3.74 \times 10^{2}$	$1.30 \times 10^{1}$	$-3.92 \times 10^{2}$	$-3.49 \times 10^{2}$	581.2	16.7	0.011
L-BFGS-Conservative	$-3.80 \times 10^{2}$	$1.28 \times 10^{1}$	$-3.92 \times 10^{2}$	$-3.49 \times 10^{2}$	561.9	15.0	0.015
QQN-Bisection-1	$-3.72 \times 10^{2}$	$1.71 \times 10^{1}$	$-3.92 \times 10^{2}$	$-3.07 \times 10^{2}$	379.2	10.0	0.009
QQN-Backtracking	$-3.65 \times 10^{2}$	$1.61 \times 10^{1}$	$-3.92 \times 10^{2}$	$-3.35 \times 10^{2}$	146.8	10.0	0.005
GD-Momentum	$-3.63 \times 10^{2}$	$2.72 \times 10^{1}$	$-3.92 \times 10^{2}$	$-2.54 \times 10^{2}$	84.1	10.0	0.003
Trust Region-Standard	$-2.01 \times 10^{2}$	$8.95 \times 10^{-1}$	$-2.03 \times 10^{2}$	$-1.99 \times 10^{2}$	602.0	0.0	0.004
L-BFGS-Aggressive	$-1.73 \times 10^{2}$	$4.01 \times 10^{1}$	$-2.44 \times 10^{2}$	$-8.37 \times 10^{1}$	775.0	0.0	0.007
Adam-WeightDecay	$-6.75 \times 10^{1}$	3.96	$-7.57 \times 10^{1}$	$-6.19 \times 10^{1}$	502.0	0.0	0.011
Trust Region-Adaptive	$-5.14 \times 10^{1}$	$9.48 \times 10^{-1}$	$-5.29 \times 10^{1}$	$-4.96 \times 10^{1}$	602.0	0.0	0.004
Adam-AMSGrad	$-1.41 \times 10^{1}$	1.49	$-1.64 \times 10^{1}$	$-1.04 \times 10^{1}$	502.0	0.0	0.012
Adam	$-1.37 \times 10^{1}$	2.34	$-1.93 \times 10^{1}$	-9.78	502.0	0.0	0.011
Trust Region-Conservative	-3.34	1.12	-5.31	-1.29	602.0	0.0	0.004