

Results for HardMax t = 1000 Needle In Haystack High

	ThompsonSampling	DynamicEpsilonGreedy	DynamicGreedy
ThompsonSampling	0.14 +/- 0.027 0.097 (0.086, 0.11) Extreme Shares: 88 %	0.2 +/- 0.032 0.13 (0.12, 0.15) Extreme Shares: 88 %	0.24 +/- 0.035 0.15 (0.14, 0.18) Extreme Shares: 86 %
DynamicEpsilonGreedy	0.13 +/- 0.027 0.097 (0.086, 0.11) Extreme Shares: 92 %	0.21 +/- 0.033 0.14 (0.13, 0.16) Extreme Shares: 89 %	0.25 +/- 0.035 0.16 (0.14, 0.18) Extreme Shares: 86 %
DynamicGreedy	0.12 +/- 0.025 0.078 (0.069, 0.088) Extreme Shares: 90 %	0.2 +/- 0.032 0.14 (0.12, 0.15) Extreme Shares: 89 %	0.25 +/- 0.035 0.15 (0.14, 0.18) Extreme Shares: 85 %

Results for HardMaxWithRandom t = 1000 Needle In Haystack High

	ThompsonSampling	DynamicEpsilonGreedy	DynamicGreedy
ThompsonSampling	0.21 +/- 0.027 0.094 (0.083, 0.11) Extreme Shares: 73 %	0.29 +/- 0.032 0.13 (0.12, 0.15) Extreme Shares: 73 %	0.34 +/- 0.034 0.15 (0.14, 0.17) Extreme Shares: 71 %
DynamicEpsilonGreedy	0.24 +/- 0.028 0.1 (0.093, 0.12) Extreme Shares: 69 %	0.3 +/- 0.031 0.13 (0.11, 0.14) Extreme Shares: 68 %	0.42 +/- 0.034 0.15 (0.13, 0.17) Extreme Shares: 64 %
DynamicGreedy	0.27 +/- 0.029 0.11 (0.098, 0.13) Extreme Shares: 68 %	0.29 +/- 0.03 0.12 (0.11, 0.14) Extreme Shares: 65 %	0.37 +/- 0.033 0.14 (0.12, 0.16) Extreme Shares: 62 %

Results for SoftMax t = 1000 Needle In Haystack High

	ThompsonSampling	DynamicEpsilonGreedy	DynamicGreedy
ThompsonSampling	0.44 +/- 0.0085 0.0093 (0.0082, 0.011) Extreme Shares: 0 %	0.48 +/- 0.012 0.019 (0.017, 0.022) Extreme Shares: 0 %	0.53 +/- 0.016 0.033 (0.029, 0.038) Extreme Shares: 0 %
DynamicEpsilonGreedy	0.43 +/- 0.012 0.018 (0.016, 0.021) Extreme Shares: 0 %	0.47 +/- 0.016 0.031 (0.028, 0.036) Extreme Shares: 0 %	0.51 +/- 0.017 0.038 (0.034, 0.043) Extreme Shares: 0 %
DynamicGreedy	0.42 +/- 0.014 0.025 (0.022, 0.029) Extreme Shares: 0 %	0.45 +/- 0.015 0.03 (0.026, 0.034) Extreme Shares: 0 %	0.49 +/- 0.018 0.041 (0.036, 0.047) Extreme Shares: 0 %

Results for HardMax t = 1000 Heavy Tail

	ThompsonSampling	DynamicEpsilonGreedy	DynamicGreedy
ThompsonSampling	0.056 +/- 0.018 0.04 (0.036, 0.046) Extreme Shares: 94 %	0.11 +/- 0.025 0.083 (0.074, 0.094) Extreme Shares: 92 %	0.11 +/- 0.025 0.08 (0.071, 0.091) Extreme Shares: 91 %
DynamicEpsilonGreedy	0.094 +/- 0.021 0.058 (0.052, 0.066) Extreme Shares: 87 %	0.16 +/- 0.027 0.096 (0.085, 0.11) Extreme Shares: 83 %	0.15 +/- 0.026 0.088 (0.078, 0.1) Extreme Shares: 83 %
DynamicGreedy	0.15 +/- 0.027 0.094 (0.083, 0.11) Extreme Shares: 85 %	0.22 +/- 0.032 0.14 (0.12, 0.15) Extreme Shares: 82 %	0.18 +/- 0.027 0.097 (0.086, 0.11) Extreme Shares: 76 %

Results for HardMaxWithRandom t = 1000 Heavy Tail

	ThompsonSampling	DynamicEpsilonGreedy	DynamicGreedy
ThompsonSampling	0.13 +/- 0.02 0.053 (0.047, 0.061) Extreme Shares: 80 %	0.21 +/- 0.027 0.092 (0.082, 0.1) Extreme Shares: 74 %	0.2 +/- 0.027 0.095 (0.084, 0.11) Extreme Shares: 77 %
DynamicEpsilonGreedy	0.19 +/- 0.023 0.07 (0.062, 0.079) Extreme Shares: 69 %	0.28 +/- 0.028 0.1 (0.088, 0.11) Extreme Shares: 57 %	0.24 +/- 0.027 0.092 (0.082, 0.1) Extreme Shares: 62 %
DynamicGreedy	0.23 +/- 0.027 0.092 (0.082, 0.11) Extreme Shares: 65 %	0.34 +/- 0.03 0.12 (0.1, 0.13) Extreme Shares: 52 %	0.29 +/- 0.029 0.11 (0.094, 0.12) Extreme Shares: 58 %

Results for SoftMax t = 1000 Heavy Tail

	ThompsonSampling	DynamicEpsilonGreedy	DynamicGreedy
ThompsonSampling	0.45 +/- 0.0063 0.0051 (0.0045, 0.0058) Extreme Shares: 0 %	0.49 +/- 0.008 0.0083 (0.0074, 0.0095) Extreme Shares: 0 %	0.49 +/- 0.012 0.018 (0.016, 0.02) Extreme Shares: 0 %
DynamicEpsilonGreedy	0.43 +/- 0.0084 0.0091 (0.008, 0.01) Extreme Shares: 0 %	0.46 +/- 0.0091 0.011 (0.0094, 0.012) Extreme Shares: 0 %	0.47 +/- 0.012 0.019 (0.016, 0.021) Extreme Shares: 0.2 %
DynamicGreedy	0.45 +/- 0.0099 0.013 (0.011, 0.014) Extreme Shares: 0.2 %	0.48 +/- 0.011 0.017 (0.015, 0.019) Extreme Shares: 0 %	0.48 +/- 0.01 0.014 (0.012, 0.016) Extreme Shares: 0 %

Results for HardMax t = 1000 Uniform

	ThompsonSampling	DynamicEpsilonGreedy	DynamicGreedy
ThompsonSampling	0.17 +/- 0.028 0.099 (0.088, 0.11) Extreme Shares: 81 %	0.17 +/- 0.029 0.11 (0.095, 0.12) Extreme Shares: 86 %	0.21 +/- 0.031 0.13 (0.11, 0.15) Extreme Shares: 83 %
DynamicEpsilonGreedy	0.2 +/- 0.03 0.12 (0.1, 0.13) Extreme Shares: 79 %	0.19 +/- 0.029 0.11 (0.099, 0.13) Extreme Shares: 81 %	0.24 +/- 0.033 0.14 (0.12, 0.16) Extreme Shares: 80 %
DynamicGreedy	0.18 +/- 0.029 0.11 (0.097, 0.12) Extreme Shares: 80 %	0.21 +/- 0.03 0.11 (0.1, 0.13) Extreme Shares: 76 %	0.24 +/- 0.032 0.13 (0.12, 0.15) Extreme Shares: 77 %

Results for HardMaxWithRandom t = 1000 Uniform

	ThompsonSampling	DynamicEpsilonGreedy	DynamicGreedy
ThompsonSampling	0.25 +/- 0.026 0.087 (0.077, 0.098) Extreme Shares: 57 %	0.32 +/- 0.031 0.12 (0.11, 0.14) Extreme Shares: 57 %	0.33 +/- 0.03 0.12 (0.1, 0.13) Extreme Shares: 55 %
DynamicEpsilonGreedy	0.29 +/- 0.028 0.1 (0.091, 0.12) Extreme Shares: 55 %	0.33 +/- 0.029 0.11 (0.097, 0.12) Extreme Shares: 51 %	0.35 +/- 0.03 0.12 (0.1, 0.13) Extreme Shares: 51 %
DynamicGreedy	0.3 +/- 0.029 0.11 (0.095, 0.12) Extreme Shares: 55 %	0.32 +/- 0.029 0.11 (0.096, 0.12) Extreme Shares: 52 %	0.36 +/- 0.03 0.12 (0.1, 0.13) Extreme Shares: 49 %

Results for SoftMax t = 1000 Uniform

	ThompsonSampling	DynamicEpsilonGreedy	DynamicGreedy
ThompsonSampling	0.46 +/- 0.0077 0.0076 (0.0067, 0.0086) Extreme Shares: 0 %	0.47 +/- 0.0099 0.013 (0.011, 0.014) Extreme Shares: 0 %	0.5 +/- 0.012 0.02 (0.017, 0.022) Extreme Shares: 0 %
DynamicEpsilonGreedy	0.46 +/- 0.01 0.013 (0.011, 0.015) Extreme Shares: 0 %	0.47 +/- 0.011 0.015 (0.013, 0.017) Extreme Shares: 0 %	0.49 +/- 0.013 0.022 (0.02, 0.025) Extreme Shares: 0 %
DynamicGreedy	0.45 +/- 0.011 0.016 (0.014, 0.018) Extreme Shares: 0 %	0.47 +/- 0.012 0.019 (0.017, 0.021) Extreme Shares: 0 %	0.49 +/- 0.013 0.023 (0.02, 0.026) Extreme Shares: 0 %