# Results for HardMax 1000 Needle In Haystack Medium

	ThompsonSampling	<b>DynamicEpsilonGreedy</b>	DynamicGreedy
		<b>0.5382</b> +/- 0.0829	<b>0.5004</b> +/- 0.08005
ThompsonSampling		0.2193 (0.1735, 0.286)	0.2045 (0.1618, 0.2667)
		Extreme Shares: 0.848	Extreme Shares: 0.768
DynamicEpsilonGreedy			
		<b>0.4658</b> +/- 0.08306	
DynamicGreedy		0.2202 (0.1742, 0.2871)	
		Extreme Shares: 0.864	

## Results for HardMax 3000 Needle In Haystack Medium

	ThompsonSampling	<b>DynamicEpsilonGreedy</b>	DynamicGreedy
		<b>0.5248</b> +/- 0.08155	<b>0.51</b> +/- 0.08121
ThompsonSampling		0.2122 (0.1679, 0.2768)	0.2104 (0.1665, 0.2745)
		Extreme Shares: 0.816	Extreme Shares: 0.792
DynamicEpsilonGreedy			
		<b>0.4785</b> +/- 0.08277	
DynamicGreedy		0.2186 (0.173, 0.2851)	
		Extreme Shares: 0.816	

# Results for HardMax 5000 Needle In Haystack Medium

	ThompsonSampling	<b>DynamicEpsilonGreedy</b>	DynamicGreedy
		<b>0.5286</b> +/- 0.0813	<b>0.5094</b> +/- 0.08125
ThompsonSampling		0.2109 (0.1669, 0.2751)	0.2106 (0.1667, 0.2747)
		Extreme Shares: 0.824	Extreme Shares: 0.816
DynamicEpsilonGreedy			
		<b>0.4856</b> +/- 0.08192	
DynamicGreedy		0.2141 (0.1694, 0.2793)	
		Extreme Shares: 0.832	

#### Results for HardMaxWithRandom 1000 Needle In Haystack Medium

	ThompsonSampling	<b>DynamicEpsilonGreedy</b>	DynamicGreedy
		<b>0.4854</b> +/- 0.06265	<b>0.5192</b> +/- 0.06025
ThompsonSampling		0.1252 (0.09908, 0.1633)	0.1158 (0.09166, 0.1511)
		Extreme Shares: 0.408	Extreme Shares: 0.392
DynamicEpsilonGreedy			
		<b>0.451</b> +/- 0.06515	
DynamicGreedy		0.1354 (0.1072, 0.1766)	
		Extreme Shares: 0.512	

## Results for HardMaxWithRandom 3000 Needle In Haystack Medium

	ThompsonSampling	DynamicEpsilonGreedy	DynamicGreedy
		<b>0.5375</b> +/- 0.05326	<b>0.5315</b> +/- 0.05097
ThompsonSampling		0.09051 (0.07162, 0.1181)	0.08289 (0.06558, 0.1081)
		Extreme Shares: 0.24	Extreme Shares: 0.192
DynamicEpsilonGreedy			
		<b>0.4446</b> +/- 0.04767	
DynamicGreedy		0.07252 (0.05738, 0.09459)	
		Extreme Shares: 0.168	

#### Results for HardMaxWithRandom 5000 Needle In Haystack Medium

	ThompsonSampling	DynamicEpsilonGreedy	DynamicGreedy
		<b>0.5687</b> +/- 0.04801	<b>0.5548</b> +/- 0.04668
ThompsonSampling		0.07355 (0.05819, 0.09593)	0.06952 (0.05501, 0.09068)
		Extreme Shares: 0.16	Extreme Shares: 0.144
DynamicEpsilonGreedy			
		<b>0.4288</b> +/- 0.04295	
DynamicGreedy		0.05887 (0.04658, 0.07678)	
		Extreme Shares: 0.104	

## Results for SoftMax 1000 Needle In Haystack Medium

	ThompsonSampling	DynamicEpsilonGreedy	DynamicGreedy
		<b>0.4931</b> +/- 0.01528	<b>0.5081</b> +/- 0.01487
ThompsonSampling		0.007454 (0.005898, 0.009723)	0.007056 (0.005583, 0.009203)
		Extreme Shares: 0	Extreme Shares: 0
DynamicEpsilonGreedy			
		<b>0.4969</b> +/- 0.0154	
DynamicGreedy		0.007571 (0.005991, 0.009875)	
		Extreme Shares: 0	

## Results for SoftMax 3000 Needle In Haystack Medium

	ThompsonSampling	DynamicEpsilonGreedy	DynamicGreedy
		<b>0.5034</b> +/- 0.009352	<b>0.5234</b> +/- 0.01191
ThompsonSampling		0.002791 (0.002208, 0.00364)	0.004523 (0.003579, 0.0059)
		Extreme Shares: 0	Extreme Shares: 0
DynamicEpsilonGreedy			
		<b>0.491</b> +/- 0.01271	
DynamicGreedy		0.005154 (0.004078, 0.006722)	
		Extreme Shares: 0	

## Results for SoftMax 5000 Needle In Haystack Medium

	ThompsonSampling	DynamicEpsilonGreedy	DynamicGreedy
		<b>0.5075</b> +/- 0.008611	<b>0.5307</b> +/- 0.011
ThompsonSampling		0.002366 (0.001872, 0.003086)	0.003863 (0.003056, 0.005038)
		Extreme Shares: 0	Extreme Shares: 0
DynamicEpsilonGreedy			
		<b>0.4829</b> +/- 0.01235	
DynamicGreedy		0.004869 (0.003852, 0.00635)	
		Extreme Shares: 0	

# Results for HardMax 1000 Needle In Haystack High

	ThompsonSampling	<b>DynamicEpsilonGreedy</b>	DynamicGreedy
		<b>0.52</b> +/- 0.08728	<b>0.5754</b> +/- 0.08571
ThompsonSampling		0.243 (0.1923, 0.317)	0.2344 (0.1855, 0.3057)
		Extreme Shares: 0.96	Extreme Shares: 0.944
DynamicEpsilonGreedy			
		<b>0.4637</b> +/- 0.08632	
DynamicGreedy		0.2377 (0.1881, 0.3101)	
		Extreme Shares: 0.952	

## Results for HardMax 3000 Needle In Haystack High

	ThompsonSampling	<b>DynamicEpsilonGreedy</b>	DynamicGreedy
		<b>0.5251</b> +/- 0.08817	<b>0.5897</b> +/- 0.08478
ThompsonSampling		0.2481 (0.1963, 0.3236)	0.2293 (0.1814, 0.2991)
		Extreme Shares: 1	Extreme Shares: 0.952
DynamicEpsilonGreedy	,		
		<b>0.4563</b> +/- 0.08649	
DynamicGreedy	,	0.2387 (0.1889, 0.3113)	
		Extreme Shares: 0.968	

## Results for HardMax 5000 Needle In Haystack High

	ThompsonSampling	<b>DynamicEpsilonGreedy</b>	DynamicGreedy
		<b>0.525</b> +/- 0.08821	<b>0.5983</b> +/- 0.08459
ThompsonSampling		0.2483 (0.1964, 0.3238)	0.2283 (0.1807, 0.2978)
		Extreme Shares: 0.992	Extreme Shares: 0.944
DynamicEpsilonGreedy			
		<b>0.4563</b> +/- 0.08656	
DynamicGreedy		0.2391 (0.1892, 0.3118)	
		Extreme Shares: 0.96	

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# Results for HardMaxWithRandom 1000 Needle In Haystack High

	ThompsonSampling	<b>DynamicEpsilonGreedy</b>	DynamicGreedy
		<b>0.5682</b> +/- 0.07578	<b>0.6297</b> +/- 0.06789
ThompsonSampling		0.1832 (0.145, 0.239)	0.1471 (0.1164, 0.1918)
		Extreme Shares: 0.776	Extreme Shares: 0.632
DynamicEpsilonGreedy			
		<b>0.4782</b> +/- 0.07687	
DynamicGreedy		0.1885 (0.1492, 0.2459)	
		Extreme Shares: 0.792	

## Results for HardMaxWithRandom 3000 Needle In Haystack High

	ThompsonSampling	<b>DynamicEpsilonGreedy</b>	DynamicGreedy
		<b>0.5923</b> +/- 0.06395	<b>0.6761</b> +/- 0.05935
ThompsonSampling		0.1305 (0.1033, 0.1702)	0.1124 (0.08893, 0.1466)
		Extreme Shares: 0.52	Extreme Shares: 0.504
DynamicEpsilonGreedy			
		<b>0.4827</b> +/- 0.06623	
DynamicGreedy		0.1399 (0.1107, 0.1825)	
		Extreme Shares: 0.536	

#### Results for HardMaxWithRandom 5000 Needle In Haystack High

	ThompsonSampling	DynamicEpsilonGreedy	DynamicGreedy
		<b>0.6017</b> +/- 0.05462	<b>0.6876</b> +/- 0.05362
ThompsonSampling		0.09519 (0.07532, 0.1242)	0.09175 (0.0726, 0.1197)
		Extreme Shares: 0.36	Extreme Shares: 0.496
DynamicEpsilonGreedy			
		<b>0.4677</b> +/- 0.05911	
DynamicGreedy		0.1115 (0.08821, 0.1454)	
		Extreme Shares: 0.392	

## Results for SoftMax 1000 Needle In Haystack High

	ThompsonSampling	DynamicEpsilonGreedy	DynamicGreedy
		<b>0.5117</b> +/- 0.02476	<b>0.5266</b> +/- 0.03151
ThompsonSampling		0.01955 (0.01547, 0.02551)	0.03167 (0.02506, 0.04131)
		Extreme Shares: 0	Extreme Shares: 0
DynamicEpsilonGreedy			
		<b>0.4921</b> +/- 0.03276	
DynamicGreedy		0.03425 (0.0271, 0.04467)	
		Extreme Shares: 0	

# Results for SoftMax 3000 Needle In Haystack High

	ThompsonSampling	DynamicEpsilonGreedy	DynamicGreedy
		<b>0.5246</b> +/- 0.01676	<b>0.5695</b> +/- 0.02623
ThompsonSampling		0.008965 (0.007094, 0.01169)	0.02195 (0.01737, 0.02863)
		Extreme Shares: 0	Extreme Shares: 0
DynamicEpsilonGreedy			
		<b>0.4614</b> +/- 0.02836	
DynamicGreedy		0.02566 (0.0203, 0.03347)	
		Extreme Shares: 0	

#### Results for SoftMax 5000 Needle In Haystack High

	ThompsonSampling	DynamicEpsilonGreedy	DynamicGreedy
		<b>0.5235</b> +/- 0.01271	<b>0.5786</b> +/- 0.02575
ThompsonSampling		0.005154 (0.004078, 0.006722)	0.02116 (0.01675, 0.0276)
		Extreme Shares: 0	Extreme Shares: 0
DynamicEpsilonGreedy			
		<b>0.4541</b> +/- 0.02631	
DynamicGreedy		0.02209 (0.01747, 0.02881)	
		Extreme Shares: 0	

# Results for HardMax 1000 Heavy Tail

	ThompsonSampling	<b>DynamicEpsilonGreedy</b>	DynamicGreedy
		<b>0.4622</b> +/- 0.08713	<b>0.4108</b> +/- 0.08655
ThompsonSampling		0.2422 (0.1917, 0.3159)	0.239 (0.1891, 0.3118)
		Extreme Shares: 0.968	Extreme Shares: 0.992
DynamicEpsilonGreedy			
		<b>0.5396</b> +/- 0.08459	
DynamicGreedy		0.2283 (0.1807, 0.2978)	
		Extreme Shares: 0.912	

## Results for HardMax 3000 Heavy Tail

	ThompsonSampling	<b>DynamicEpsilonGreedy</b>	DynamicGreedy
		<b>0.4633</b> +/- 0.08786	<b>0.4106</b> +/- 0.08682
ThompsonSampling		0.2463 (0.1949, 0.3213)	0.2405 (0.1903, 0.3137)
		Extreme Shares: 0.976	Extreme Shares: 0.984
DynamicEpsilonGreedy			
		<b>0.5533</b> +/- 0.08422	
DynamicGreedy		0.2263 (0.1791, 0.2952)	
		Extreme Shares: 0.88	

# Results for HardMax 5000 Heavy Tail

	ThompsonSampling	<b>DynamicEpsilonGreedy</b>	DynamicGreedy
		<b>0.4635</b> +/- 0.08813	<b>0.416</b> +/- 0.08658
ThompsonSampling		0.2478 (0.1961, 0.3232)	0.2392 (0.1893, 0.312)
		Extreme Shares: 0.992	Extreme Shares: 0.984
DynamicEpsilonGreedy			
		<b>0.5644</b> +/- 0.08447	
DynamicGreedy		0.2277 (0.1801, 0.2969)	
		Extreme Shares: 0.904	

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# Results for HardMaxWithRandom 1000 Heavy Tail

	ThompsonSampling	<b>DynamicEpsilonGreedy</b>	DynamicGreedy
		<b>0.5232</b> +/- 0.08018	<b>0.4543</b> +/- 0.07707
ThompsonSampling		0.2051 (0.1623, 0.2675)	0.1895 (0.15, 0.2472)
		Extreme Shares: 0.896	Extreme Shares: 0.8
DynamicEpsilonGreedy			
		<b>0.5477</b> +/- 0.07001	
DynamicGreedy		0.1564 (0.1237, 0.204)	
		Extreme Shares: 0.632	

# Results for HardMaxWithRandom 3000 Heavy Tail

	ThompsonSampling	<b>DynamicEpsilonGreedy</b>	DynamicGreedy
		<b>0.5514</b> +/- 0.06718	<b>0.4786</b> +/- 0.06896
ThompsonSampling		0.144 (0.114, 0.1878)	0.1517 (0.1201, 0.1979)
		Extreme Shares: 0.536	Extreme Shares: 0.584
DynamicEpsilonGreedy			
		<b>0.5634</b> +/- 0.06095	
DynamicGreedy		0.1185 (0.0938, 0.1546)	
		Extreme Shares: 0.408	

# Results for HardMaxWithRandom 5000 Heavy Tail

	ThompsonSampling	<b>DynamicEpsilonGreedy</b>	DynamicGreedy
		<b>0.5966</b> +/- 0.0507	<b>0.5097</b> +/- 0.0576
ThompsonSampling		0.08201 (0.06489, 0.107)	0.1059 (0.08377, 0.1381)
		Extreme Shares: 0.264	Extreme Shares: 0.352
DynamicEpsilonGreedy			
		<b>0.5713</b> +/- 0.05706	
DynamicGreedy		0.1039 (0.08221, 0.1355)	
		Extreme Shares: 0.336	

# Results for SoftMax 1000 Heavy Tail

	ThompsonSampling	DynamicEpsilonGreedy	DynamicGreedy
		<b>0.5214</b> +/- 0.0228	<b>0.513</b> +/- 0.02549
ThompsonSampling		0.01659 (0.01312, 0.02163)	0.02073 (0.0164, 0.02704)
		Extreme Shares: 0	Extreme Shares: 0
DynamicEpsilonGreedy			
		<b>0.4936</b> +/- 0.02533	
DynamicGreedy		0.02047 (0.0162, 0.0267)	
		Extreme Shares: 0	

# Results for SoftMax 3000 Heavy Tail

	ThompsonSampling	DynamicEpsilonGreedy	DynamicGreedy
		<b>0.5324</b> +/- 0.01201	<b>0.5363</b> +/- 0.02128
ThompsonSampling		0.004601 (0.003641, 0.006001)	0.01446 (0.01144, 0.01885)
		Extreme Shares: 0	Extreme Shares: 0
DynamicEpsilonGreedy			
		<b>0.4843</b> +/- 0.02276	
DynamicGreedy		0.01653 (0.01308, 0.02156)	
		Extreme Shares: 0	

## Results for SoftMax 5000 Heavy Tail

	ThompsonSampling	DynamicEpsilonGreedy	DynamicGreedy
		<b>0.5289</b> +/- 0.008896	<b>0.5433</b> +/- 0.02037
ThompsonSampling		0.002525 (0.001998, 0.003293)	0.01324 (0.01047, 0.01727)
		Extreme Shares: 0	Extreme Shares: 0
DynamicEpsilonGreedy			
		<b>0.4821</b> +/- 0.02259	
DynamicGreedy		0.01629 (0.01289, 0.02124)	
		Extreme Shares: 0	

#### Results for HardMax 1000 Uniform

	ThompsonSampling	<b>DynamicEpsilonGreedy</b>	DynamicGreedy
		<b>0.5186</b> +/- 0.08626	<b>0.5107</b> +/- 0.08552
ThompsonSampling		0.2374 (0.1879, 0.3097)	0.2334 (0.1847, 0.3044)
		Extreme Shares: 0.944	Extreme Shares: 0.912
DynamicEpsilonGreedy			
		<b>0.4737</b> +/- 0.08523	
DynamicGreedy		0.2318 (0.1834, 0.3023)	
		Extreme Shares: 0.92	

#### Results for HardMax 3000 Uniform

	ThompsonSampling	<b>DynamicEpsilonGreedy</b>	DynamicGreedy
		<b>0.531</b> +/- 0.08672	<b>0.5212</b> +/- 0.08657
ThompsonSampling		0.24 (0.1899, 0.313)	0.2391 (0.1892, 0.3119)
		Extreme Shares: 0.96	Extreme Shares: 0.96
DynamicEpsilonGreedy			
		<b>0.4655</b> +/- 0.08319	
DynamicGreedy		0.2208 (0.1747, 0.288)	
		Extreme Shares: 0.88	

#### Results for HardMax 5000 Uniform

	ThompsonSampling	<b>DynamicEpsilonGreedy</b>	DynamicGreedy
		<b>0.5361</b> +/- 0.08661	<b>0.526</b> +/- 0.08672
ThompsonSampling		0.2393 (0.1894, 0.3122)	0.24 (0.1899, 0.313)
		Extreme Shares: 0.944	Extreme Shares: 0.96
DynamicEpsilonGreedy			
		<b>0.4665</b> +/- 0.08399	
DynamicGreedy		0.2251 (0.1781, 0.2936)	
		Extreme Shares: 0.88	

#### Results for HardMaxWithRandom 1000 Uniform

	ThompsonSampling	<b>DynamicEpsilonGreedy</b>	DynamicGreedy
ThompsonSampling		<b>0.5103</b> +/- 0.07456	<b>0.4605</b> +/- 0.07171
		0.1774 (0.1403, 0.2313)	0.1641 (0.1298, 0.214)
		Extreme Shares: 0.712	Extreme Shares: 0.656
DynamicEpsilonGreedy			
		<b>0.4743</b> +/- 0.06833	
DynamicGreedy		0.149 (0.1179, 0.1943)	
		Extreme Shares: 0.608	

#### Results for HardMaxWithRandom 3000 Uniform

	ThompsonSampling	DynamicEpsilonGreedy	DynamicGreedy
ThompsonSampling		<b>0.5201</b> +/- 0.06424	<b>0.4525</b> +/- 0.06181
		0.1317 (0.1042, 0.1718)	0.1219 (0.09647, 0.159)
		Extreme Shares: 0.488	Extreme Shares: 0.408
DynamicEpsilonGreedy	,		
		<b>0.4414</b> +/- 0.05917	
DynamicGreedy	,	0.1117 (0.08838, 0.1457)	
		Extreme Shares: 0.376	

#### Results for HardMaxWithRandom 5000 Uniform

	ThompsonSampling	<b>DynamicEpsilonGreedy</b>	DynamicGreedy
		<b>0.5324</b> +/- 0.0575	<b>0.4955</b> +/- 0.05429
ThompsonSampling		0.1055 (0.08347, 0.1376)	0.09406 (0.07442, 0.1227)
		Extreme Shares: 0.336	Extreme Shares: 0.264
DynamicEpsilonGreedy			
		<b>0.4305</b> +/- 0.05458	
DynamicGreedy		0.09506 (0.07522, 0.124)	
		Extreme Shares: 0.312	

## Results for SoftMax 1000 Uniform

	ThompsonSampling	DynamicEpsilonGreedy	DynamicGreedy
		<b>0.5167</b> +/- 0.02015	<b>0.5022</b> +/- 0.02372
ThompsonSampling		0.01296 (0.01025, 0.0169)	0.01795 (0.01421, 0.02342)
		Extreme Shares: 0	Extreme Shares: 0
DynamicEpsilonGreedy			
		<b>0.4802</b> +/- 0.0252	
DynamicGreedy		0.02026 (0.01603, 0.02643)	
		Extreme Shares: 0	

#### Results for SoftMax 3000 Uniform

	ThompsonSampling	DynamicEpsilonGreedy	DynamicGreedy
		<b>0.52</b> +/- 0.01261	<b>0.5292</b> +/- 0.01893
ThompsonSampling		0.005075 (0.004015, 0.006619)	0.01143 (0.009047, 0.01491)
		Extreme Shares: 0	Extreme Shares: 0
DynamicEpsilonGreedy			
		<b>0.472</b> +/- 0.02211	
DynamicGreedy		0.0156 (0.01234, 0.02035)	
		Extreme Shares: 0	

#### Results for SoftMax 5000 Uniform

	ThompsonSampling	DynamicEpsilonGreedy	DynamicGreedy
		<b>0.5157</b> +/- 0.01008	<b>0.5386</b> +/- 0.01774
ThompsonSampling		0.003242 (0.002565, 0.004229)	0.01004 (0.007941, 0.01309)
		Extreme Shares: 0	Extreme Shares: 0
DynamicEpsilonGreedy			
		<b>0.4625</b> +/- 0.0211	
DynamicGreedy		0.0142 (0.01124, 0.01852)	
		Extreme Shares: 0	