K	ey								
Small: 10,000									
Medium: 100,000	O Fastest								
Large: 1,000,000	Slowest								
Unsorted: Runtime Summary									
Unsorted	Mergesort	Quicksort	Heapsort	Overall Avg.	Overall St. Dev.				
Small	49.31169351	24.38139915	64.7876819	46.16025819	20.386652				
Medium	580.4796537	313.8713678	820.7049529	571.6853248	253.5312129				
Large	7296.410306	5996.961363	11343.45207	8212.274581	2788.430787				
Overall Avg.	2642.067218	2111.738043	4076.314902						
Overall St. Dev.	4039.519407	3367.814023	6304.864369						
	\$	Sorted: Runtime	e Summary						
Unsorted	Mergesort	Quicksort	Heapsort	Overall Avg.	Overall St. Dev.				
Small	48.858881	27.28293737	78.20568085	51.4491664	25.56000068				
Medium	478.7210385	276.3173421	833.1008434	529.3797414	281.8274205				
Large	5720.05167	5204.430715	9215.810235	6713.430874	2182.405346				
Overall Avg.	2082.543863	1836.010332	3375.705587						
Overall St. Dev.	3157.497847	2919.793904	5071.743626						
	Reve	rse Sorted: Ru	ntime Summa	ry					
Unsorted	Mergesort	Quicksort	Heapsort	Overall Avg.	Overall St. Dev.				
Small	40.97599188	99.95833238	63.19564184	68.04332203	29.78848981				
Medium	470.1456149	382.9897881	787.356178	546.830527	212.8108929				
Large	5548.029923	13892.99048	9691.507538	9710.842646	4172.513876				
Overall Avg.	2019.717177	4791.979533	3514.019786						
Overall St. Dev.	3063.133978	7882.977031	5362.100178						

	Unsorted			Sorted			Reverse		
	Small	Medium	Large	Small	Medium	Large	Small	Medium	Large
	52.62422562	576.3888359	7319.066048	50.26197433	475.356102	5723.402023	40.80295563	467.8399563	5554.421902
	50.80914497	583.4069252	7355.995178	48.31290245	509.5131397	5750.860691	40.53902626	468.7402248	5526.409864
	48.20609093	570.6617832	7214.269876	49.0860939	488.1579876	5781.173944	44.81315613	476.2730598	5609.059095
	50.49014091	577.4409771	7459.642887	48.61998558	472.55826	5856.577158	41.06998444	485.669136	5677.197218
	49.04317856	579.4789791	7243.174076	48.59495163	480.7040691	5701.602936	39.89481926	473.6959934	5689.889908
	50.03595352	606.3017845	7783.489943	48.66719246	477.4880409	5734.916925	39.81161118	465.0731087	5543.869972
	47.84369469	577.0800114	7488.695621	51.04422569	505.0079823	5807.329178	42.76585579	465.8420086	5603.834867
	48.68721962	597.2218513	7278.980017	50.60791969	481.8849564	5887.004852	39.84808922	489.1219139	5660.379171
	52.47306824	623.9449978	7839.489222	50.30107498	493.1278229	5808.598042	41.56589508	465.9731388	5488.723993
	47.85108566	574.4802952	7539.428234	49.60489273	474.4989872	5933.909893	50.48513412	509.9971294	5644.441128
	48.80309105	573.8620758	7401.483059	50.01997948	477.1721363	5796.714783	40.59290886	464.4412994	5501.389742
	50.1909256	569.589138	7170.782804	48.52199554	478.1401157	5634.558201	39.49117661	464.1799927	5496.085882
	50.14300346	573.2958317	7174.865723	48.53200912	472.9959965	5650.00391	39.75915909	464.0181065	5482.922792
	48.93112183	570.3420639	7190.17005	48.46310616	473.0682373	5655.790091	40.03667831	465.3937817	5439.94379
	48.53701591	574.7208595	7170.315027	48.60115051	472.3701477	5622.409105	39.73698616	460.0338936	5487.764835
	48.89798164	571.5179443	7144.726038	48.49410057	473.954916	5630.109072	39.80064392	456.6500187	5502.346277
	48.75898361	571.9423294	7249.307156	48.56872559	476.7012596	5676.23806	39.96372223	466.2117958	5477.490902
	48.33483696	570.6291199	7157.025099	47.23000526	476.1939049	5664.712191	40.20118713	463.5310173	5485.173941
	47.68490791	572.4089146	7138.995886	48.23303223	473.1719494	5628.293753	40.54784775	461.163044	5460.239887
	48.45094681	577.6548386	7490.241051	48.57587814	475.1019478	5654.059887	39.91913795	469.1357613	5452.339172
	48.79784584	566.808939	7142.205	48.49505424	473.5620022	5659.657001	40.06910324	465.9800529	5497.252703
	48.21300507	570.5049038	7152.680159	48.48003387	476.9229889	5648.882866	39.6490097	464.4060135	5479.647875
	48.817873	569.6599483	7167.24205	48.53606224	476.8638611	5650.16818	40.30489922	464.4122124	5455.152035
	48.66194725	570.2416897	7183.864832	48.38109016	475.1701355	5632.811069	38.9623642	460.5817795	5475.347996
	48.56133461	578.0968666	7171.910048	48.92516136	473.0730057	5878.747225	42.07587242	480.9160233	5764.225006
	52.33120918	645.4808712	7409.821749	49.25107956	476.6457081	5682.038069	39.96491432	474.894762	5561.955214
	48.52604866	570.5821514	7214.286089	48.56777191	479.2289734	5649.82605	39.09683228	468.2700634	5504.533052
	53.14683914	586.9441032	7180.217266	48.54393005	471.6176987	5667.425871	41.65911674	471.1101055	5521.726847
	47.06215858	575.6013393	7244.642973	48.44903946	482.2127819	5680.87101	40.58694839	458.8899612	5620.234966
	48.43592644	588.0992413	7215.29603	47.79601097	469.1660404	5852.858067	45.26472092	491.9230938	5776.897669
Average	49.31169351	580.4796537	7296.410306	48.858881	478.7210385	5720.05167	40.97599188	470.1456149	5548.029923
Standard Dev.	1.568573452	17.27045662	183.4768703	0.8373853246	9.171831117	91.96635765	2.312968885	11.4175881	92.8824386

	Unsorted			Sorted			Reverse		
	Small	Medium	Large	Small	Medium	Large	Small	Medium	Large
	25.51817894	302.3760319	6131.863832	27.23097801	271.6698647	5305.665016	98.36602211	378.7510395	14633.47578
	26.06296539	332.7889442	6329.541922	27.19378471	275.8290768	5352.972031	84.26189423	405.2507877	15127.27714
	26.48591995	374.5307922	6450.016022	29.05774117	284.0740681	5407.048941	103.4002304	383.0747604	13688.761
	23.63324165	298.4170914	5739.60495	26.99804306	276.8988609	5139.494896	88.95611763	374.0849495	13269.63091
	21.97504044	301.9440174	5744.902134	27.10413933	283.5409641	5377.946854	80.63697815	387.4950409	13337.71586
	23.32496643	300.0979424	5743.376732	26.88479424	274.3589878	5153.217077	95.96395493	377.0208359	13914.76917
	26.46303177	307.6679707	6222.296	27.30584145	282.487154	5278.512955	87.67199516	391.6721344	13914.69502
	24.40094948	325.3428936	6235.473156	26.95298195	282.9077244	5198.619127	82.39793777	376.6710758	14093.92309
	23.69689941	305.8691025	5898.826838	27.56714821	280.1032066	5196.741104	103.3110619	376.2712479	14051.96214
	23.02122116	313.4288788	6244.143009	26.95584297	270.5309391	5133.7111	74.23996925	378.3881664	13909.84893
	23.15211296	299.4742393	5813.401222	26.93104744	269.6940899	5137.552977	99.1332531	364.7520542	13340.36922
	25.69794655	306.7038059	6101.680994	27.62794495	287.9800797	5241.261959	142.9171562	383.728981	14799.34072
	23.01001549	300.8031845	5744.74597	26.72290802	272.7706432	5201.216936	115.7209873	371.5391159	15106.10199
	27.03094482	331.0582638	6830.910921	28.20801735	287.4450684	5415.061951	126.0781288	396.463871	13213.40179
	22.2299099	306.702137	5664.388895	27.54306793	267.3752308	5089.266062	105.3261757	378.827095	13538.37204
	22.27306366	304.6579361	5763.67116	27.22787857	271.5637684	5115.450859	81.63905144	377.8898716	13022.07088
	24.11603928	305.2258492	5738.282919	27.12702751	268.2871819	5122.781038	93.48368645	382.3010921	14345.45517
	25.51317215	306.8401814	5805.389166	26.95298195	266.502142	5124.653101	121.1228371	373.7370968	13556.50997
	23.89788628	307.5683117	5872.665882	27.08506584	276.4310837	5122.6511	99.09200668	388.1819248	13098.42205
	25.97570419	325.9649277	5861.176014	26.97491646	269.6740627	5134.770155	88.81211281	381.0710907	12384.07183
	22.33695984	307.5151443	5793.686867	26.96275711	272.4449635	5117.463112	95.29280663	384.8638535	15532.50504
	26.10301971	300.8520603	5729.5959	26.98874474	271.6181278	5110.70013	98.74463081	377.7399063	13682.66177
	24.52993393	305.1459789	5800.915003	27.41384506	275.3169537	5178.960085	137.1641159	371.1590767	12551.78428
	26.31926537	301.7373085	5918.169022	27.78697014	290.8399105	5383.623838	103.5318375	404.3309689	13610.51726
	23.71406555	310.8000755	6338.053226	27.04620361	268.6212063	5194.510937	109.4379425	394.6568966	13933.11691
	23.27179909	326.3528347	5756.356001	27.11224556	269.2558765	5070.966959	82.39102364	380.0799847	13411.50999
	27.81009674	383.3551407	6921.959877	27.99701691	294.0061092	5344.642162	113.1420135	399.6469975	14372.45727
	22.90725708	313.1790161	5948.622942	27.35614777	272.7150917	5148.053169	95.45230865	371.8729019	14842.63706
	23.32615852	299.4229794	5980.013132	27.03714371	282.7489376	5228.811741	79.70786095	387.4189854	14953.66502
	23.64420891	310.3179932	5785.111189	27.13489532	271.8288898	5106.594086	111.3538742	390.7518387	13552.68502
Average	24.38139915	313.8713678	5996.961363	27.28293737	276.3173421	5204.430715	99.95833238	382.9897881	13892.99048
Standard Dev.	1.620954516	20.16681594	324.1761304	0.4778756718	7.513091722	104.5312232	16.82771216	9.979726348	771.5825419

	Unsorted			Sorted			Reverse		
	Small	Medium	Large	Small	Medium	Large	Small	Medium	Large
	75.24299622	833.0528736	12677.39892	84.18107033	887.8791332	9383.899212	66.37215614	813.8666153	9916.378975
	69.49400902	847.110033	12225.05498	78.13692093	849.1299152	9419.630051	63.96508217	803.1101227	9875.68593
	65.12117386	838.321209	12364.00485	80.72280884	850.632906	9511.380911	61.77282333	809.9551201	10056.78105
	63.7140274	809.7269535	11789.62708	77.64291763	823.8637447	9324.551105	61.0871315	789.7441387	9640.213966
	62.87884712	801.5170097	11645.12777	80.26170731	847.2807407	9413.403988	64.73112106	810.5909824	9753.427029
	62.84499168	816.4496422	11118.29877	77.50606537	828.2499313	9232.604027	63.51280212	776.0560513	9729.649067
	65.5040741	803.6270142	10886.81579	77.55303383	821.3500977	9094.347954	63.38310242	775.5427361	9653.692722
	63.39883804	823.2929707	11425.24028	79.23603058	871.1416721	9128.671885	62.43896484	781.7289829	9649.45507
	63.05789948	808.4058762	11488.04712	79.22887802	847.4538326	9392.152071	63.57192993	771.024704	9746.589184
	66.61510468	801.3079166	11067.67893	78.06396484	830.2378654	9150.902987	64.027071	781.1889648	9584.390163
	64.89706039	808.4640503	11040.07602	77.3832798	850.5439758	9273.282051	65.26017189	801.7148972	9738.49082
	63.29607964	839.9050236	11110.40306	78.97782326	830.4860592	9192.728996	62.08610535	777.4968147	9615.941763
	63.0300045	810.1959229	11109.17878	77.1791935	832.7260017	9141.870975	64.81099129	774.3701935	9643.956184
	62.9067421	822.0090866	11111.89985	79.06603813	824.4740963	9242.486	63.51900101	815.5050278	9583.817959
	62.10684776	800.1980782	10933.79092	77.93784142	814.5399094	9035.659075	61.42997742	770.8659172	9525.786161
	61.50484085	799.4430065	10926.13506	78.24420929	815.1462078	9122.550011	58.76302719	774.0299702	9648.391962
	64.25595284	803.4951687	11263.26394	79.04696465	824.3811131	9325.784206	61.85817719	793.5726643	9698.768139
	64.49913979	823.7278461	11536.80205	78.14598083	820.679903	9305.97806	65.92011452	809.874773	9786.394119
	65.07539749	838.1927013	11074.94187	78.34219933	842.274189	9259.834051	62.20388412	790.9431458	9644.97304
	66.96796417	824.5482445	11629.54068	77.60095596	821.5620518	9238.424778	63.77196312	806.055069	9816.109896
	66.97702408	831.6590786	11413.00702	77.064991	835.3250027	9095.563173	63.50684166	768.4276104	9559.106112
	63.74502182	796.1268425	10919.61598	78.82595062	816.3130283	9030.481815	62.66021729	775.8820057	9524.078131
	64.66603279	796.0939407	10857.28621	76.97176933	815.4990673	9123.358965	62.68310547	768.3768272	9530.166626
	63.95316124	788.8469696	10871.26207	77.01706886	827.1951675	9036.007881	63.22813034	772.9611397	9553.287983
	61.69104576	795.9671021	11066.93697	77.65197754	813.7979507	9184.519053	62.67404556	773.3259201	9674.375057
	61.88702583	797.369957	10861.99188	76.94530487	824.2387772	9067.831039	63.31586838	779.1452408	9836.696863
	63.6408329	912.79006	12259.28974	77.71205902	833.0178261	9167.917252	62.48903275	774.2168903	9622.893095
	72.08490372	943.7520504	11422.62673	76.9071579	826.3020515	9140.130043	61.72513962	780.5790901	9638.7043
	64.35322762	804.48699	11085.03389	75.58727264	840.3749466	9176.163673	63.25817108	782.3119164	9591.579914
	64.22019005	801.0649681	11123.18492	77.02898979	826.9281387	9262.191772	65.84310532	818.2218075	9905.44486
Average	64.7876819	820.7049529	11343.45207	78.20568085	833.1008434	9215.810235	63.19564184	787.356178	9691.507538
Standard Dev.	2.997809894	33.42104977	489.8301426	1.559797884	17.0134694	126.5057754	1.588319533	16.34901006	130.8734824