Appendix B - Knapsack Algorithms' Running Times

Capacity	0		20		40		60		80		100		Other		
Item Count	Exhaustive	Dynamic	Exhaustive	Dynamic	Exhaustive	Dynamic	Exhaustive	Dynamic	Exhaustive	Dynamic	Exhaustive	Dynamic	2^n	n*0	n*1
0	39.574	347.068	38.137	480.581	38.429	523.540	27.792	256.407	29.124	305.710	27.349	419.783	3.000	0	0
1	45.726	44.220	46.112	69.348	40.389	137.624	63.308	209.720	64.178	263.301	64.960	343.256	6.000	0	50.000
2	98.225	56.645	95.627	103.504	40.804	205.233	26.473	305.153	26.923	393.814	29.701	500.246	12.000	0	100.000
3	68.596	72.373	70.969	140.848	123.692	273.862	24.502	400.731	32.186	525.562	28.552	700.002	24.000	0	150.000
4	65.773	94.034	46.057	170.339	47.004	341.271	105.451	488.078	55.565	651.451	58.976	883.439	48.000	0	200.000
5	85.865	109.708	84.197	224.887	105.153	416.144	48.715	585.758	48.550	774.520	53.657	1.020.030	96.000	0	250.000
6	120.500	127.026	119.247	245.860	120.497	492.284	115.759	721.597	118.350	937.813	123.286	1.204.919	192.000	0	300.000
7	255.842	144.038	258.995	275.214	257.212	566.429	220.492	847.490	223.585	1.063.171	227.374	1.407.172	384.000	0	350.000
8	595.069	167.759	557.331	304.797	586.860	621.240	410.604	962.498	413.494	1.175.930	429.096	1.549.217	768.000	0	400.000
9	1.015.410	179.181	1.008.316	346.623	1.013.770	706.412	922.149	1.046.235	932.991	1.341.709	971.978	1.753.286	1.536.000	0	450.000
10	2.229.227	203.056	2.259.510	377.305	2.257.871	766.691	2.078.488	1.165.460	2.130.729	1.445.661	2.174.592	1.908.882	3.072.000	0	500.000
(300 samples)	(nanoseconds)		(nanoseconds)		(nanoseconds)		(nanoseconds)		(nanoseconds)		(nanoseconds)		*(*3000)*		*(*50000)*