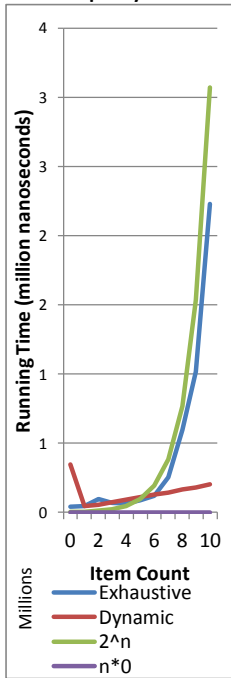


## Appendix B - Knapsack Algorithms' Running Times

Capacity	0	
Item Count	Exhaustive	Dynamic
0	39.574	347.068
1	45.726	44.220
2	98.225	56.645
3	68.596	72.373
4	65.773	94.034
5	85.865	109.708
6	120.500	127.026
7	255.842	144.038
8	595.069	167.759
9	1.015.410	179.181
10	2.229.227	203.056

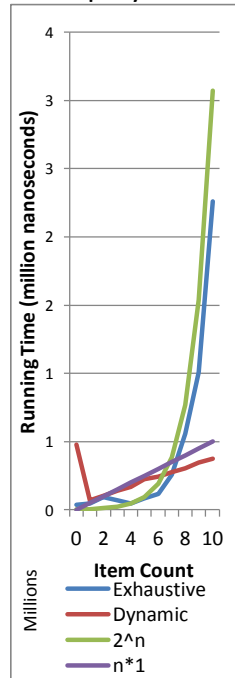
(300 samples)

(nanoseconds)  
capacity = 0



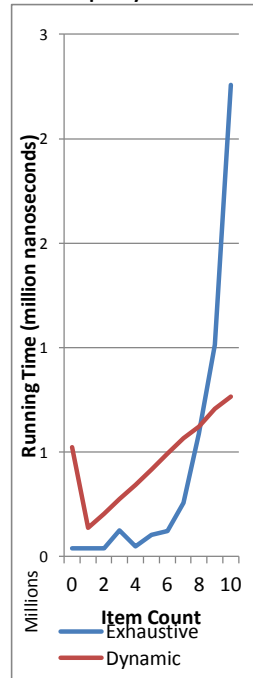
Capacity	20	
Item Count	Exhaustive	Dynamic
0	38.137	480.581
1	46.112	69.348
2	95.627	103.504
3	70.969	140.848
4	46.057	170.339
5	84.197	224.887
6	119.247	245.860
7	258.995	275.214
8	557.331	304.797
9	1.008.316	346.623
10	2.259.510	377.305

(nanoseconds)  
capacity = 20



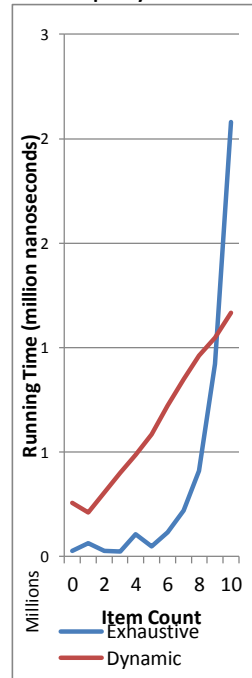
Capacity	40	
Item Count	Exhaustive	Dynamic
0	38.429	523.540
1	40.389	137.624
2	40.804	205.233
3	123.692	273.862
4	47.004	341.271
5	105.153	416.144
6	120.497	492.284
7	257.212	566.429
8	586.860	621.240
9	1.013.770	706.412
10	2.257.871	766.691

(nanoseconds)  
capacity = 40



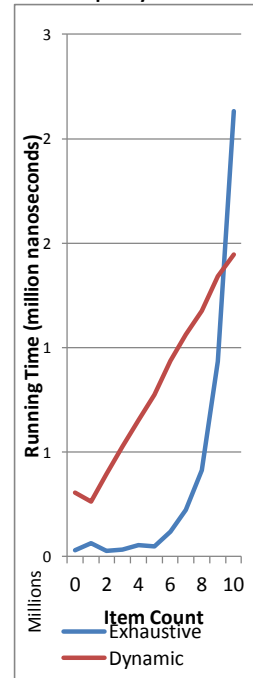
Capacity	60	
Item Count	Exhaustive	Dynamic
0	27.792	256.407
1	63.308	209.720
2	26.473	305.153
3	24.502	400.731
4	105.451	488.078
5	48.715	585.758
6	115.759	721.597
7	220.492	847.490
8	410.604	962.498
9	922.149	1.046.235
10	2.078.488	1.165.460

(nanoseconds)  
capacity = 60



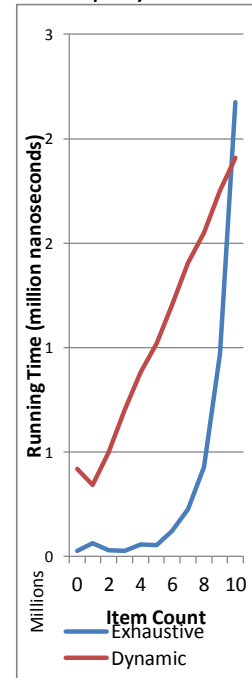
Capacity	80	
Item Count	Exhaustive	Dynamic
0	29.124	305.710
1	64.178	263.301
2	26.923	393.814
3	32.186	525.562
4	55.565	651.451
5	48.550	774.520
6	118.350	937.813
7	223.585	1.063.171
8	413.494	1.175.930
9	932.991	1.341.709
10	2.130.729	1.445.661

(nanoseconds)  
capacity = 80



Capacity	100	
Item Count	Exhaustive	Dynamic
0	27.349	419.783
1	64.960	343.256
2	29.701	500.246
3	28.552	700.002
4	58.976	883.439
5	53.657	1.020.030
6	123.286	1.204.919
7	227.374	1.407.172
8	429.096	1.549.217
9	971.978	1.753.286
10	2.174.592	1.908.882

(nanoseconds)  
capacity = 100



Capacity	Other		
Item Count	2^n	n*0	n*1
0	3.000	0	0
1	6.000	0	50.000
2	12.000	0	100.000
3	24.000	0	150.000
4	48.000	0	200.000
5	96.000	0	250.000
6	192.000	0	300.000
7	384.000	0	350.000
8	768.000	0	400.000
9	1.536.000	0	450.000
10	3.072.000	0	500.000

(\*3000)

(\*50000)