

prog1	n	runtime	lg(n)	lg(O(n))	Estimate runtime
	50	2	5.64385619	1	$O(n^{2.5})$
	100	4	6.64385619	2	
	200	16	7.64385619	4	
	400	86	8.64385619	6.426264755	
	800	460	9.64385619	8.845490051	
	1600	2823	10.64385619	11.46301341	
	3200	19247	11.64385619	14.23234597	
	6400	468191	12.64385619	18.83673768	

prog2	n	runtime	lg(n)	lg(O(n))	Estimate runtime
	50	2	5.64385619	1	$O(n^{0.84})$
	100	3	6.64385619	1.584962501	
	200	4	7.64385619	2	
	400	6	8.64385619	2.584962501	
	800	11	9.64385619	3.459431619	
	1600	20	10.64385619	4.321928095	
	3200	41	11.64385619	5.357552005	
	6400	153	12.64385619	7.257387843	

prog3	n	runtime	lg(n)	lg(O(n))	Estimate runtime
	16	2	4	1	$O(n^{5.35})$
	20	4	4.321928095	2	
	24	58	4.584962501	5.857980995	
	28	901	4.807354922	9.815383296	
	32	14335	5	13.80725428	
	34	57247	5.087462841	15.80491247	
	36	229093	5.169925001	17.80557385	
	38	917270	5.247927513	19.80698693	

