

TIME COMPLEXITY	1sec	10^2 sec (1.7 min)	10^4 sec (2.7 hr)	10^6 sec (12 DAYS)	10^8 sec (3 YEARS)	10^{10} sec (3 CENT.)
$1000n$	10^3	10^5	10^7	10^9	10^{11}	10^{13}
$1000n \lg n$	1.4×10^2	7.7×10^3	5.2×10^5	3.9×10^7	3.1×10^9	2.6×10^{11}
$100n^2$	10^2	10^3	10^4	10^5	10^6	10^7
$10n^3$	46	2.1×10^2	10^3	4.6×10^3	2.1×10^4	10^5
$n \lg n$	22	36	54	79	112	156
$2^{n/3}$	59	79	99	119	139	159
2^n	19	26	33	39	46	53
3^n	12	16	20	25	29	33

FIG. 1.2. Maximum size of a solvable problem. A factor of ten increase in machine speed corresponds to a factor of ten increase in time.