

HN#1.1

assume 30 days

Conner Kully, COSC-201

	2 sec 10^6 ms	2 min 6×10^3 ms	2 hr 3.6×10^4 ms	1 day 8.64×10^6 ms	1 month 2.592×10^{12} ms	1 yr 3.1104×10^{13} ms	1 century 3.1104×10^{15} ms
$1q_n$	$n = 2 \times 10^6$	$n = 2 \times 6 \times 10^3$	$n = 2 \times 3.6 \times 10^4$	$n = 2 \times 8.64 \times 10^6$	$n = 2 \times 2.592 \times 10^{12}$	$n = 2 \times 3.1104 \times 10^{13}$ $n = 3.1104$	$n = 3.1104 \times 10^{15}$ 2
\sqrt{n}	$n = 10^{12}$	$n = 3.6 \times 10^{15}$	$n = 1.296 \times 10^{19}$	$n = 7.46 \times 10^{21}$	$n = 6.718 \times 10^{24}$	$n = 9.67 \times 10^{26}$	$n = 9.67 \times 10^{30}$
n	$n = 10^6$	$n = 6 \times 10^7$	$n = 3.6 \times 10^9$	$n = 8.64 \times 10^{10}$	$n = 2.592 \times 10^{12}$	$n = 3.1104 \times 10^{13}$	$n = 3.1104 \times 10^{15}$
n/q_n	$n = 62746$	$n = 2.8 \times 10^6$	$n = 1.33 \times 10^8$	$n = 2.76 \times 10^9$	$n = 7.19 \times 10^{10}$	$n = 7.87 \times 10^{11}$	$n = 6.77 \times 10^{13}$
n^2	$n = 10^3$	$n = 7745$	$n = 60000$	$n = 293938$	$n = 1.61 \times 10^6$	$n = 5.58 \times 10^6$	$n = 5.58 \times 10^{14}$
n^3	$n = 100$	$n = 391$	$n = 1532$	$n = 4420$	$n = 13736$	$n = 31448$	$n = 145473$
2^n	$n = 20$ $n = 19$	$n = 25$	$n = 31$	$n = 36$	$n = 42$	$n = 44$	$n = 51$
$n!$	$n = 9$	$n = 11$	$n = 12$	$n = 13$	$n = 15$	$n = 16$	$n = 17$