Algorithm Design

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Solution of Exercise R-1.7

The numbers in the first row are quite large. The table below calculates it approximately in powers of 10. People might also choose to use powers of 2. Being close to the answer is enough for the big numbers (within a few factors of 10 from the answers shown).

	1 Second	1 Hour	1 Month	1 Century
$\log n$	$2^{10^6} \approx 10^{300000}$	$2^{3.6\times 10^9} \approx 10^{10^9}$	$2^{2.6\times 10^{12}} \approx 10^{0.8\times 10^{12}}$	$2^{3.1\times 10^{15}} \approx 10^{10^{15}}$
$\sqrt{n}$	$\approx 10^{12}$	$\approx 1.3\times 10^{19}$	$\approx 6.8\times 10^{24}$	$\approx 9.7\times 10^{30}$
n	10^6	3.6×10^9	$\approx 2.6\times 10^{12}$	$\approx 3.12\times 10^{15}$
$n\log n$	$\approx 10^5$	$\approx 10^9$	$\approx 10^{11}$	$\approx 10^{14}$
n^2	1000	6×10^4	$\approx 1.6\times 10^6$	$\approx 5.6\times 10^7$
n^3	100	≈ 1500	≈ 14000	≈ 1500000
2^n	19	31	41	51
$n!$	9	12	15	17

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Zhe Xu

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Algorithm Design Foundations Manual Solutions Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Algorithm Design Foundations Manual Solutions**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve into the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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