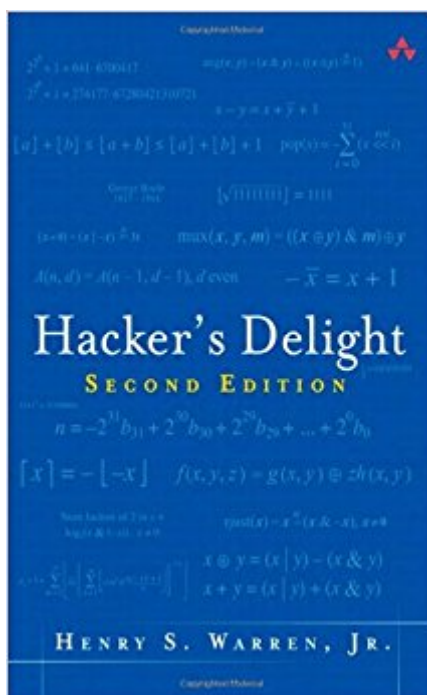


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# Hacker's Delight (2nd Edition)



## Synopsis

In *Hacker's Delight*, Second Edition, Hank Warren once again compiles an irresistible collection of programming hacks: timesaving techniques, algorithms, and tricks that help programmers build more elegant and efficient software, while also gaining deeper insights into their craft. Warren's hacks are eminently practical, but they're also intrinsically interesting, and sometimes unexpected, much like the solution to a great puzzle. They are, in a word, a delight to any programmer who is excited by the opportunity to improve.

Extensive additions in this edition include

- A new chapter on cyclic redundancy checking (CRC), including routines for the commonly used CRC-32 code
- A new chapter on error correcting codes (ECC), including routines for the Hamming code
- More coverage of integer division by constants, including methods using only shifts and adds
- Computing remainders without computing a quotient
- More coverage of population count and counting leading zeros
- Array population count
- New algorithms for compress and expand
- An LRU algorithm
- Floating-point to/from integer conversions
- Approximate floating-point reciprocal square root routine
- A gallery of graphs of discrete functions

Now with exercises and answers

## Book Information

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## Customer Reviews

“This is the first book that promises to tell the deep, dark secrets of computer arithmetic, and it delivers in spades. It contains every trick I knew plus many, many more. A godsend for library developers, compiler writers, and lovers of elegant hacks, it deserves a spot on your shelf right next to Knuth. In the ten years since the first edition came out, it's been absolutely invaluable to my work at Sun and Google. I'm thrilled with all of the new material in the second edition.”

Joshua Bloch    When I first saw the title, I figured that the book must be either a cookbook for breaking into computers (unlikely) or some sort of compendium of little programming tricks. It's the latter, but it's thorough, almost encyclopedic, in its coverage. The second edition covers two new major topics and expands the overall collection with dozens of additional little tricks, including one that I put to use right away in a binary search algorithm: computing the average of two integers without risking overflow. This hacker is indeed delighted! •    Guy Steele

Henry S. Warren, Jr., has had a fifty-year career with IBM, spanning from the IBM 704 to the PowerPC and beyond. He has worked on various military command and control systems and on the SETL (SET Language) project under Jack Schwartz. Since 1973, Hank has been with IBM's Research Division, focusing on compilers and computer architectures. He currently works on a supercomputer project aimed at an exaflop. Hank received his Ph.D. in computer science from the Courant Institute at New York University.

This book was recommended by my professor. It's basically a collection of binary math tricks that really help out in understanding the algorithms that are best suited for whatever you are trying to accomplish. It's pretty advanced so if you don't have a basic understanding of coding yet, then this will be pretty hard to grasp and make adequate use of it.

nice book, good for reviewing it once in a while. Don't read before interviews, it might confuse you and most interviewers won't understand what you want to do. This is for very advanced and out-of-norm programmers

Great tips for low-level stack programmers. I have used some of these tricks in my assembly projects. The insight in this book is incredible.

Hacker's Delight first edition was resourceful. This second edition even more so. The bit manipulation chapters have lots of hints on how to code without branches. There are some "scary" math on later chapters but you can ignore it.

In 5, 10, 50 years this book will be still actual, correct and useful.

A friend has borrowed my copy of the book before I have read it. He still keeps it, so I guess it must

be good! :-)

I rarely recommend a second edition of anything to someone who owns the first, but this stands out as a worthy exception. It starts with the amazing menagerie of slick tricks that the first edition had, but adds material regarding CRCs, error correction, creative arithmetic, and more. Oh, I'm sure you can get by without these for lots of purposes. When efficiency really matters, though, or when you need to work in constrained environments (like small embedded processors that lack floating point or maybe even division instructions), approaches like these more than make up for the effort involved in using them. And, if you code in VHDL or Verilog instead of sequential languages, tools like these can help you past that last nanosecond to meet timing. Highly recommended, not just because my copy of the first edition came with so many poorly-bound, loose pages.-- wiredweird

Gift which was just what he wanted!

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