



$$2^{27} + 1 = 641 \cdot 6700417$$

$$\text{neg}(x, y) = (x \& y) + ((x \oplus y) \ll 1)$$

$$2^{28} + 1 = 274177 \cdot 67280421310721$$

$$x - y = x + \bar{y} + 1$$

$$\lfloor a \rfloor + \lfloor b \rfloor \leq \lfloor a + b \rfloor \leq \lfloor a \rfloor + \lfloor b \rfloor + 1 \quad \text{pop}(x) = -\sum_{i=0}^{31} (x \ll i) \ll i$$

$$\text{George Blaise} \\ 1815-1864$$

$$\lfloor \sqrt{\text{IIIIII}} \rfloor = \text{IIII}$$

$$(x \oplus 0) \oplus (x \oplus \neg x) \oplus 31$$

$$\text{max}(x, y, m) = ((x \oplus y) \& m) \oplus y$$

$$A(n, d) \approx A(n-1, d-1), d \text{ even}$$

$$-\bar{x} = x + 1$$

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$$n = -2^{31}b_{31} + 2^{30}b_{30} + 2^{29}b_{29} + \dots + 2^0b_0$$

$$\lceil x \rceil = -\lfloor -x \rfloor \quad f(x, y, z) = g(x, y) \oplus zh(x, y)$$

$$\text{Num Factors of 2 in } x = \\ \log_2(x \& (x-1)), x \neq 0$$

$$\text{rjust}(x) = x \gg (x \& \neg x), x \neq 0$$

$$x \oplus y = \sum_{i=0}^{\infty} \left[\left(x \left\lfloor \frac{1}{2^i} \right\rfloor \right) \oplus \left(y \left\lfloor \frac{1}{2^i} \right\rfloor \right) \right] \cdot 2^i$$

$$x \oplus y = (x \mid y) - (x \& y)$$

$$x + y = (x \mid y) + (x \& y)$$

HENRY S. WARREN, JR.

Hackers Delight 2nd Edition

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Hacker's Delight Henry S. Warren, 2013 Compiles programming hacks intended to help computer programmers build more efficient software in an updated edition that covers cyclic redundancy checking and new algorithms and that includes exercises with answers

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Digital Crossroads, second edition Jonathan E. Nuechterlein, Philip J. Weiser, 2013-07-05 A thoroughly updated comprehensive and accessible guide to U S telecommunications law and policy covering recent developments including mobile broadband issues spectrum policy and net neutrality In Digital Crossroads two experts on telecommunications policy offer a comprehensive and accessible analysis of the regulation of competition in the U S telecommunications industry The first edition of Digital Crossroads MIT Press 2005 became an essential and uniquely readable guide for policymakers lawyers scholars and students in a fast moving and complex policy field In this second edition the authors have revised every section of every chapter to reflect the evolution in industry structure technology and regulatory strategy since 2005 The book features entirely new discussions of such topics as the explosive development of the mobile broadband ecosystem incentive auctions and other recent spectrum policy initiatives the FCC s net neutrality rules the National Broadband Plan the declining relevance of the traditional public switched telephone network and the policy response to online video services and their potential to transform the way Americans watch television Like its predecessor this new edition of Digital Crossroads not only helps nonspecialists climb this field s formidable learning curve but also makes substantive contributions to ongoing policy debates

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