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A Computational Introduction to Number Theory and Algebra

This document is a gentle introduction to computational number theory. The plan of the paper is to first give a quick overview of arithmetic in the modular integers. Throughout, we will emphasize computation and practical results rather than delving into the why.

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Consequently, books that introduce the computational aspects of number theory and algebra will help novices appreciate such applications. This introductory book is a revised second edition of a book that first appeared in 2005.

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If you follow me on Twitter, you've probably known that I've been into "A computational introduction to number theory and algebra" aka NTB for the last two or three months.IMHO, NTB is the best introductory-level book on number theory and algebra, especially for those who want to study these two mathematic subjects from a computer science and cryptography perspective.

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