MATH COUNTS

Peter B.
Henderson

Programming and Mathematical Thinking

OUR GUEST CONTRIBUTOR for this Math CountS column is Allan Stavely, who recently wrote *Programming and Mathematical Thinking: A Gentle Introduction Featuring Python* [2], which will be available in early 2014. In this column, Allan gives his motivation for writing this book, shares his insights on the role mathematics can play in the curricula, and provides some guidelines for achieving these goals.

I'd like to second a statement that the editor of this column made previously, but push it farther. In his September 2013 column Dr. Henderson, speaking of the current state of mathematics in undergraduate computer science, said:

The mathematical foundation concepts are not used or reinforced effectively in most computer science courses, the relevant connections between these mathematical concepts and the fundamental concepts of computer science are not made, and the importance of mathematics as a tool for reasoning, problem solving and analysis, and solution verification are lost for many students.

To the last point, I would add: *the importance of discrete-mathematics struc-*

tures in day-to-day programming is lost for many students.

The courses in my department have long followed a familiar pattern: introductory programming in the first semester, data structures and algorithms in the second semester, and a discrete mathematics course in the second year as a prerequisite to several courses in the third and fourth year. Many of my students never saw the point of the discrete math course at the time they were taking it; students call the course "Weird Math." Courses like the third-year analysis-of-algorithms and formal-languages-and-automata courses would use discrete-math structures, of course, so that when the students hit my fourth-year compiler-writing course they could cope with the sets and trees and directed graphs used in compiler writing. However, I suspect that many of the students left the course thinking that discrete structures are used only in such advanced and exotic computer science topics.

On the contrary, I claim that concepts of discrete mathematics are enormously useful in even the most basic kinds of programming. Let me quote from a forthcoming textbook of mine. The example is adapted from my book *Toward Zero-Defect Programming* [3].

Many experienced programmers approach the design of a program by describing its input, output, and internal data objects in the vocabulary of discrete mathematics: sets, sequences, mappings, relations, and so on. This is a useful habit

for us, as programmers, to cultivate. It can help to clarify our thinking about design problems; in fact, solutions often become obvious. And we inherit a well-understood vocabulary for specifying and documenting our programs and for discussing them with other programmers.

For example, consider this simple programming problem. Suppose that we are writing software to analyze web pages, and we want some code that will read two web pages and find all of the URLs that appear in both. Some programmers might approach the problem like this:

First I'll read the first web page and store all the URLs I find in a list. Then I'll read the second web page and, every time I find a URL, search the list for it. But wait: I don't want to include the same URL in my result more than once. I'll keep a second list of the URLs that I've already found in both web pages, and search that before I search the list of URLs from the first web page.

But a programmer who is accustomed to thinking in terms of discrete-mathematical structures might immediately think of a different approach:

The URLs in a web page are a set. I'll read each web page and build up the set of URLs in each using set insertion. Then I can get the URLs common to both web pages by using set intersection.

Either approach will work, but the second is conceptually simpler and it will probably be more straightforward to implement. In fact, once the problem is described in mathematical terms, most of the design work is already done.

Programmers can exploit the properties of sets and relations and other discrete structures in their work even before they study those structures formally and learn how to construct proofs using them. Beginning computer science students can often do their work more skillfully and professionally, as in the example above, if they think in terms of the discrete structures when formulating designs. So can programming students who aren't computer science majors.

Programming And Mathematical Thinking

JL Elias

Programming And Mathematical Thinking:

Decoding **Programming And Mathematical Thinking**: Revealing the Captivating Potential of Verbal Expression

In an era characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Programming And Mathematical Thinking**," a mesmerizing literary creation penned with a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book is central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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