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computer programming, and on the problem -solving and logical- mathematical thinking skills of students
This study was a semi-experimental, pretest-posttest study with two experimental groups and a control groups A total of 75 students were divided among all

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Math CountS column is Allan Stavelly, who recently wrote Programming and Math-ematical Thinking: A Gentle Introduction Featuring Python [2], which will be avail-able in early 2014. In this column ...

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Programming And Mathematical Thinking

Programming and mathematical thinking: a gentle introduction to discrete math featuring Python / Allan M. Stavelly. xii, 246 p.: ill. ; 28 cm ISBN 978-1-938159-00-8 (pbk.) — 978-1-938159-01-5 (ebook) 1. Computer science — Mathematics. 2. Mathematics — Discrete Mathematics. 3. Python (Computer program language). QA 76.9 .M35 .S79 2014 004-dc22

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Programming and Mathematical Thinking: A Gentle ...

Programming and mathematical thinking Henderson, Peter B.; Stavely, Allan M. 2014-03-01 00:00:00 INSI G HTS MATH COUNTS Peter B. Henderson
Programming and Mathematical Thinking Editor's Note: Peter B. Henderson and Allan M. Stavely co-authored this column OUR GUEST CONTRIBUTOR for this Math CountS column is Allan Stavely, who recently wrote Programming and Mathematical Thinking: A Gentle ...

Programming and mathematical thinking, ACM Inroads | 10 ...

We need it everyday, in our daily activities. But when you ' re a programmer or a problem solver you need the mathematics most. Because math simply make a person more logical, creative and intelligence. To be a better programmer one must know at least a very little of Discrete Mathematics, Linear Algebra, Calculus, Probability, Cryptography, Geometry and Statistics.

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In many ways discrete mathematics is more relevant to programming than numerical mathematics is: not just to particular kinds of programming, but to all programming. 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.

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Mathematical thinking is crucial in all areas of computer science: algorithms, bioinformatics, computer graphics, data science, machine learning, etc. In this course, we will learn the most important tools used in discrete mathematics: induction, recursion, logic, invariants, examples, optimality. We will use these tools to answer typical programming questions like: How can we be certain a solution exists?

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Teaching approaches: Mathematical thinking - OER in Education

Programming requires a way of thinking that isn't directly analogous to mathematics. The ability to visualize data structures, decompose big problems into smaller problems, and think in terms of objects and functional abstractions. This doesn't naturally follow from mathematical thinking.

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