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By columns: Column  $j$  of  $AB = A$  times column  $j$  of  $B$ . By rows: row  $i$  of  $A$  multiplies  $B$ . Columns times rows:  $AB =$  sum of (column  $k$ ) (row  $k$ ). All these equivalent definitions come from the rule that  $A B$  times  $x$  equals  $A$  times  $B x$ . Minimal polynomial of  $A$ . The lowest degree polynomial with  $m(A) =$  zero matrix.

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Theoretical computer science (TCS) is a subset of general computer science and mathematics that focuses on mathematical aspects of computer science such as lambda calculus or type theory. It is difficult if not near-impossible to circumscribe the theoretical areas precisely. The ACM's Special Interest Group on Algorithms and Computation Theory (SIGACT) provides the following description:

Theoretical computer science - Wikipedia

Course Description. This course covers elementary discrete mathematics for computer science and engineering. It emphasizes mathematical definitions and proofs as well as applicable methods. Topics include formal logic notation, proof methods; induction, well-ordering; sets, relations; elementary graph theory; integer congruences; asymptotic notation and growth of functions; permutations and combinations, counting principles; discrete probability.

Mathematics for Computer Science | Electrical Engineering ...

This text explains how to use mathematical models and methods to analyze problems that arise in computer science. The notion of a proof plays a central role in this work. Simply put, a proof is a method of establishing truth. Like beauty, "truth" sometimes depends on the eye of the beholder, and it should not be surprising that what

Mathematics for Computer Science - MIT OpenCourseWare

In computer programming, a string is traditionally a sequence of characters, either as a literal constant or as some kind of variable. The latter may allow its elements to be mutated and the length changed, or it may be fixed (after creation). A string is generally considered as a data type and is often implemented as an array data structure of bytes (or words) that stores a sequence of ...

String (computer science) - Wikipedia

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Offered by University of California San Diego. Discrete Mathematics is the language of Computer Science. One needs to be fluent in it to work in many fields including data science, machine learning, and software engineering (it is not a coincidence that math puzzles are often used for interviews). We introduce you to this language through a fun try-this-before-we-explain-everything approach ...

Introduction to Discrete Mathematics for Computer Science ...

Key Math Terms and definitions covered in this textbook. Basis for  $V$ . Independent vectors  $v_1, \dots, v_d$  whose linear combinations give each vector in  $V$  as  $v = c_1v_1 + \dots + c_dv_d$ .  $V$  has many bases, each basis gives unique  $c$ 's. A vector space has many bases! Cayley-Hamilton Theorem.  $p_A(A) = \det(A - \lambda I)$  has  $p_A(A) = \text{zero matrix}$ . Cramer's Rule for  $Ax = b$ .

Solutions for Chapter 5.6: The Mighty Mod Function | StudySoup

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