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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

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these equivalent definitions come from the rule that  $A \cdot B \text{ times } x$  equals  $A \text{ times } B \cdot x$ . Minimal polynomial of  $A$ . The lowest degree polynomial with  $m(A) = \text{zero}$  matrix.

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side of  
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science. The  
journal aims to



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Theoretical

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(TCS) is a

subset of

general computer

science and

mathematics that

focuses on

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aspects of

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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  
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and engineering.

It emphasizes  
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definitions and  
proofs as well  
as applicable

methods. Topics  
include formal  
logic notation,  
proof methods;  
induction, well-  
ordering; sets,  
relations;

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elementary graph  
theory; integer  
congruences;  
asymptotic  
notation and  
growth of  
functions;  
permutations and  
combinations,  
counting  
principles;  
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probability.

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| Electrical  
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This text  
explains how to  
use mathematical  
models and  
methods to  
analyze prob-  
lems that arise  
in computer  
science. The  
notion of a

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proof plays a central role in this work.

Simply put, a proof is a method of establishing truth. Like beauty, “truth” some-times depends on the eye of the beholder, and it should not be

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surprising that  
what

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programming, a  
string is  
traditionally a  
sequence of  
characters,  
either as a

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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

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data type and is often implemented as an array data structure of bytes (or words) that stores a sequence of ...

*String (computer science) -*

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material. Then,  
you actually do  
the exercises  
and double check  
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coincidence that  
math puzzles are  
often used for  
interviews). We  
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Key Math Terms  
and definitions  
covered in this  
textbook. Basis  
for V.

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### Structures For

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

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Theorem.  $p(\lambda) = \det(A - \lambda I)$  has  
 $p(\lambda) = 0$  for  $\lambda$  an eigenvalue of  $A$ .  
matrix. Cramer's  
Rule for  $Ax = b$ .

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