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mathematically,

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enumerability, and  
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illustrates the

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by presenting  
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their applications to  
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explains the  
fundamental concepts  
in mathematics. It can  
be used by the  
students in computer  
science as an  
introduction to the  
underlying ideas of  
mathematics for  
computer science.

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the principles of  
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principles and its  
applications.

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The mathematical

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side concentrates on

areas where

computers are used,

or which are relevant

to computer science,

namely algebra,

general topology,

number theory,

combinatorics and

logic. Examples from

the computing side

include computational

complexity,

concurrency, and

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part of the  
mathematical  
foundations needed to

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work in computer science in any of its strands, from business to visual digital arts, music, games. At any stage of the problem solving and modelling stage you will require numerical and computational tools.

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Master's  
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Foundations of  
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The theory of  
computation arose  
from concerns about  
the foundations of  
mathematics, and  
was developed in the  
work of Gödel,  
Church, Turing,

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Kleene and others.  
The actual building of  
computing machinery  
later was strongly  
influenced by this  
theoretical work.

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Theoretical computer  
science is a subset of  
general computer

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focuses on more  
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of computing, and  
includes the theory of  
computation. It is  
difficult to  
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Important Questions

Prove that a group

consisting of three

elements is an

abelian group? Prove

that  $G = \{-1, 1, i, -i\}$  is an

abelian group under

multiplication? Let  $G =$

$\{-1, 0, 1\}$ . Verify that  $G$

forms an abelian

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group under addition?

Prove that the order  
of  $a^{-1}$  ...

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The mathematical side concentrates on areas where computers are used, or which are relevant to computer science, namely algebra, general topology, number theory, combinatorics and logic. Examples from the computing side

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include computational  
complexity,  
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Computer science is considered by some to have a much closer relationship with mathematics than many scientific disciplines, with some observers saying that computing is a mathematical science. Early computer science was strongly

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influenced by the  
work of  
mathematicians such  
as Kurt Gödel, Alan  
Turing, John von  
Neumann, Rózsa  
Péter and Alonzo  
Church and there  
continues to be a  
useful interchange of  
ideas between the  
two fields in areas  
such as mathematical  
logic, category theory,

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