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~~solution~~
~~Comparing~~

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To this end,
some basic as
well as more
sophisticated
data structures
are recalled
together with
some algorithms
of greater or
lesser
complexity. The
discussion is

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then developed
by means of
various ...

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Structures and
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about the
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algorithms are
made in
practice,
however, this

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often happens
against a
background in
which there is
already too
little space for
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that are

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pseudocode
designed to be
readable by
anyone who has
done a little
programming. The
explanations
have been kept
elementary
without
sacrificing
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rigor. The first edition became the standard reference for professionals and a widely used text in universities worldwide. The second edition features new chapters on the role of algorithms,

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analysis and
randomized
algorithms, and
linear
programming, as
well as
extensive
revisions to
virtually every
section of the
book. In a
subtle but
important

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change, loop invariants are introduced early and used

throughout the text to prove algorithm correctness.

Without changing the mathematical and analytic focus, the authors have moved much of

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the mathematical foundations material from Part I to an appendix and have included additional motivational material at the beginning.

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incomplete;
others cover
masses of
material but
lack rigor.

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programming. The
third edition
has been revised
and updated
throughout. It
includes two
completely new
chapters, on van
Emde Boas trees

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substantial
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called “Divide-
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dynamic programming and greedy algorithms and a new notion of edge-based flow in the material on flow networks. Many exercises and problems have been added for this edition. The

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how to solve
problems that
ask questions
about strings of
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