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analysis and
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Designing the

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Algorithms. Now
let's design the
algorithm with
the help of

above pre-
requisites:

Algorithm to add
3 numbers and
print their sum:

START; Declare 3
integer

variables num1,
num2 and num3.

Take the three

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Algorithms, to be
added, as inputs
in variables
num1, num2, and
num3
respectively.

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Design:
Algorithms are

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mathematical
objects (in
contrast to the
must more
concrete notion
of a computer
program
implemented in
some programming
language and
executing on
some machine).
As such, we can
reason about the

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properties of
algorithms
mathematically.

When designing
an algorithm
there are two

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An algorithm is
a set of
instructions

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end result;
stresses the
importance of
the algorithm
analysis process
- continuously
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Sara Baase is a
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Computer Science
at San Diego
State

University, and
has been
teaching CS for
25 years. Dr.

Baase is a three-

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time recipient
of the San Diego
State University
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Association's
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characteristics

of algorithms

are as follows ?

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Algorithms are well-ordered with unambiguous operations.

Algorithms halt in a finite amount of time.

Algorithms

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should not run
for infinity,
i.e., an
algorithm must
end at some
point.

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undergraduate
particularly in
mind, this third

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presenting the
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their PhD
qualifying
exams, and to
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students to some
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