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5.1 Abstraction 5.2

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Libraries 5.4

Generalizing 5.5

Recursion 5.6 Case

study 5.7 Testing

Summary

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Five Functions c The

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creative solutions to
problems, because you
get mired in the details
of the problem you are
solving. Those details

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will often lead you to think about solutions to the specific problems that arise, rather than rethinking the problem altogether.

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In the context of problem solving, abstraction is looking at a problem in general rather than specific terms. It includes strategies such as going back to first principles or using an analogy to model a problem. The idea is that by removing details the core problem emerges.

What is Abstraction
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(programming language) Problem solving consists of

using generic or ad hoc methods in an orderly manner to find solutions to problems.

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programming skills by focusing on data abstraction (the walls) and recursion (the mirrors). It is fully revised to use the latest version of the Java programming language (Java 5.0).

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computational thinking
as the thought
processes involved in
formulating problems
and their solutions so

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that the solutions are represented in a form that can be effectively carried out by a computer.

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for the strengths and
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Different programming languages provide different types of abstraction, depending on the intended applications for the language. For example: In object-oriented programming languages such as C++, Object Pascal, or Java, the concept of abstraction has itself become a declarative statement - using the keywords `virtual` (in

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Abstraction (computer science) - Wikipedia

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programming language
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the study of problems,
problem-solving, and
the solutions that come
out of the problem-
solving process. Given

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