

Compilers Principles, Techniques, & Tools (purple dragon book) second edition exercise answers

Exercises for Section 1.1

1.1.1

What is the difference between a compiler and an interpreter?

Answer

A compiler is a program that can read a program in one language - the source language - and translate it into an equivalent program in another language - the target language and report any errors in the source program that it detects during the translation process.

Interpreter directly executes the operations specified in the source program on inputs supplied by the user.

1.1.2

What are the advantages of: (a) a compiler over an interpreter (b) an interpreter over a compiler?

Answer

a. The machine-language target program produced by a compiler is usually much faster than an interpreter at mapping inputs to outputs.

b. An interpreter can usually give better error diagnostics than a compiler, because it executes the source program statement by statement.

Compilers Principles Techniques And Tools Exercise Solutions

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