Chapter 2

Programming in Haskell, 2nd ed.

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2.3 Standard Prelude

Haskell has a large standard library. A portion of the standard library, called the Prelude, is included by default in all Haskell packages. Prelude includes many useful and commonly used functions, so it serves as a core part of the standard library. It includes functions such as + and * as well as several functions used on lists (like head, tail, take, and drop).

2.4 Function Application

The notation for function application is a bit different than is common in mathematics. These differences are highlighted by the table below:

Mathematics	Haskell
f(x)	f x
f(x,y)	f x y
f(g(x))	f (g x)
f(x,g(y))	f x (g y)
f(x)g(y)	f x * g y

Excerpt from: Graham Hutton. "Programming in Haskell" (2nd ed.).

2.5 Haskell Scripts

Naming requirements

When defining a new function, the names of the function and its arguments must begin with a lower-case letter, but can then be followed by zero or more letters (both lower- and upper-case), digits, underscores, and forward single quotes.

Excerpt from: Graham Hutton. "Programming in Haskell" (2nd ed.).

The layout rule

Within a script, each definition at the same level must begin in precisely the same column. This layout rulemakes it possible to determine the grouping of definitions from their indentation.

Excerpt from: Graham Hutton. "Programming in Haskell" (2nd ed.).

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