

DESIGN ISSUES FOR FUNCTIONS

The following design issues are specific to functions:

1. Are side effects allowed?
2. What types of values can be returned?
3. How many values can be returned?

1. Functional Side Effects: Because of the problems of side effects of functions that are called parameters to functions should always be in-mode (actual to formal parameter).

This requirement of in mode parameter passing prevents a function from causing side effects through its parameters.

References:

1. Sebesta, "Concept of programming Language", Pearson Edu
2. Louden, "Programming Languages: Principles & Practices" , Cengage Learning
3. Tucker, "Programming Languages: Principles and paradigms ", Tata McGraw -Hill.
4. E Horowitz, "Programming Languages", 2nd Edition, Addison Wesley

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