Phase	Goal	Activity
Data Analysis & Design	to formulate a group of data definitions	determine how many distinct classes of "objects" make up the collection of inputs • enumerate the alternatives in a data definition • formulate a data definition for each alternative, if it is a from of compound data
Contract Header & Purpose	to name the program, to specify its inputs & outputs, to describe its purpose, to formulate a program header	name the function, its inputs, its output, and specify its purpose: ;; *name* : *in1 in2* ... → *out* ;; **Purpose**: to compute ... *x1* ... *x2* (**define** (*name x1 x2* ...) ...)
Examples	to characterize the input-output relationship via examples	create examples of the input-output relationship • make sure there is at least one example per alternative
Template	to formulate an outline for a group of programs	introduce a **cond**-expression with one clause per alternative • formulate a condition for each case, using built-in and predefined predicates
Body	to define the program	develop a Scheme expression (an answer) for each **cond**-line, assuming that the condition holds
Test	to expose mistakes ("typos" and logic)	apply the function to the inputs of the examples • check that the outputs are as predicted above