

Phase 4 : Z Notation Basics

Example 1 : Given Types

$[Person, Company]$

Example 2 : Free Types

$Status ::= active \mid inactive \mid suspended$

$Answer ::= yes \mid no$

Example 3 : Abbreviations

$adult == age \geq 18$

$positive == x \neq 0$

Example 4 : Axiomatic Definitions

$population : \mathbb{N}$	$capacity : \mathbb{N}$
$population \leq capacity$	
$capacity > 0$	

Example 5 : Schema Definitions

$Library$
$books : \mathbb{N}$
$members : \mathbb{N}$
$books > 0$
$members \geq 0$

$BankAccount$
$balance : \mathbb{N}$
$overdraft : \mathbb{N}$
$balance \geq 0$
$overdraft \geq 0$