

Phase 4 : Z Notation Basics

Example 1 : Given Types

$[Person, Company]$

Example 2 : Free Types

Status ::= active — inactive — suspended

Answer ::= yes — no

Example 3 : Abbreviations

adult == age ≥ 18

positive == $x \geq 0$

Example 4 : Axiomatic Definitions

$population : N$	$capacity : N$
$population \leq capacity$	
$capacity > 0$	

Example 5 : Schema Definitions

$Library$
$books : N$
$members : N$
$books > 0$
$members \geq 0$

$BankAccount$
$balance : N$
$overdraft : N$
$balance \geq 0$
$overdraft \geq 0$