SOEN331: Introduction to Formal Methods for Software Engineering

for Software Engineering

Assignment 4 on algebraic specifications

Author's name

March 28, 2019

Spec: Location;

Sort: Location;

Imports:String, Point

Description: A location contains a description

Operations:

newLocation: String × Point → Location;

setDescription: description → Location;

getDescription : Location → Description;

setPoint : Point → Location;

getPoint : Location → Point;

Variables:

description: String; point: Point;

Axioms:

[A1] getDescription(newLocation(newdesc, newp)) = newdesc;

[A2] getPoint(newLocation(newdesc, newp)) = newp;

[A3] setDescription(newDesc, newLocation(newdesc, newp)) = STUCK HERE;

[A4] add(add(s, x), y) = add(add(s, y), x);