SOEN331: Introduction to Formal Methods

for Software Engineering

Assignment 4 on algebraic specifications

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Spec: Location;

Sort: Location;

Imports:String, Point

Description: A location contains a description

Operations:

    newLocation: String $\times$ Point $\rightarrow$ Location;

    setDescription: description $\rightarrow$ Location;

    getDescription : Location $\rightarrow$ Description;

    setPoint : Point $\rightarrow$ Location;

    getPoint : Location $\rightarrow$ 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;