SOEN331: Introduction to Formal Methods for Software Engineering Assignment 2 on Object-Z specification

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1 Map

```
\uparrow (AddLocationOK, DeleteLocationOK, ModifyLocationOK, FindLocationOK)
annonations: Description \rightarrow Point
\forall d1, d2 : dom \ annotations \bullet (annonations(d1) = annonations(d2)) --> d1 = d2
_ INIT _____
annotations = \emptyset
\_AddLocationOK ______
\Delta(annotations)
description?: Description
coordinate?:Point\\
//addprecondition and post condition here
_ DeleteLocationOK _____
\Delta(annotations)
who?: Description
who? \in dom \ annotations
annotations' = \{who\} \triangleleft annotations
\_ModifyLocationsOK ______
\Delta(annotations)
description?: Description\\
coordinates?:Point
```