

Chapter 1

OCL Code Sample

```
library mine
  metamodel uml
  require ocl_library_imports

  public definitions
    context Edge
      inv: self.from <> self.to
      inv: self.ocIsTypeOf(from)
      inv: self->includes(from)
      inv: self.allInstances
      inv: self.isUnique(self)
      inv: from or to.name = "hello"
      inv: from and to
      inv: self->isEmpty()
      inv: self->exists(from | a)
      inv: self->forAll(from | a)
      inv: self.size() = 1

    context Frame::allRedirectsTo() : Set(Frame) body:
      allRedirectsTo = self.redirectsTo()->union(
        self.redirectsTo()->collect(p | p.allRedirectsTo())

    context Frame::redirectsTo() : Set(Frame) body:
      redirectsTo = if self.onAccess->ocIsUndefined() then OrderedSet{}
        else self.onAccess.listeners.to->collect(p | p.ocIsKindOf(Frame))
      endif

    context Frame inv:
      not self.allRedirectsTo()->includes(self)

  enddefinitions
```

endlibrary

Bibliography