



```

specification filesystem {
  primitive String OCL_STRING IDENTICAL
  primitive Boolean OCL_BOOLEAN IDENTICAL
  class Directory extends File {
    file : File[*] opposite directory
    noSelfNesting(below : Directory[*] unique) : Boolean = {
      if directory.oclIsUndefined() then true
      else
        (not below->includes(directory))
        and
        directory.noSelfNesting(below->including(directory))
      endif
    }
    invariant {
      file->forall(x, y | x.name = y.name implies x = y)
      and
      noSelfNesting(Set(Directory) { self })
    }
  }
  class File {
    name : String
    directory : Directory[0, 1] opposite file
  }
}

```