```
spec My_Checker =
        SFO and Nat
then
        sorts integer < Nat; Nat < DATA
        pred design_Distance: Thing * Thing * Nat
        pred standard_Distance: Thing * Thing * Nat
        pred proper_Distance: Thing * Thing * Boolean
        foralla,b:Thing
        .exist c:Nat
        Hole(a) /\ Hole(b) /\ c in Nat => standard_Distance(a,b,c)
        foralla,b:Thing
        .exist c:Nat
        Hole(a) /\ Hole(b) /\ c in Nat => design_Distance(a,b,c)
        foralla,b:Thing;c,d:Nat
        .design_Distance(a,b,c) /\ standard_Distance(a,b,d) /\ (d < c) => proper_Distance(a,b,True)
```