```
-----Position part-----
sig Position{
    latitude: Int,
    longitude: Int
} {
    latitude >= 0
    latitude <= 3
    longitude >= 0
    longitude <= 5</pre>
}
//the positions are uniquely determinate by the place
fact differentPosition{
    all p1, p2: Position | (p1!=p2) implies (p1.latitude !=
p2.latitude or p1.longitude != p2.longitude)
}
-----Safe Area part-----
sig SafeArea{
    safePositions: some Position,
}
fact differentPositionInDifferentSafeArea{
    all s1, s2: SafeArea | all p:Position | (s1 !=s2) implies
((p in s1.safePositions) and (p not in s2.safePositions))
}
//in our world there are always unsafe position
fact positionConstraint{
    all s: SafeArea | some p: Position | p not in
s.safePositions
-----Special Area part-----
sig SpecialArea{
    specialPositions: some Position,
    plugs: Int,
} {
    plugs >= 0
    plugs <= 5
}
```