

The GateKeeper Class

1. The `GateKeeper` class must specialize the `SecurityManager` class.
2. It must have a two-parameter constructor that is passed two `int` values indicating the starting and ending hour of the period during which write-permission is allowed.
3. It must override the `checkPermission(Permission)` method in its parent.
 - 3.1. If `p instanceof FilePermission` evaluates to `true`, it must check the current time and throw a `SecurityException` if file access is not currently permitted.
 - 3.2. Otherwise it must call its parent's `checkPermission(Permission)` method.

Notes:

When overriding a `checkPermission()` method one must be careful about how one uses methods that might themselves result in a call to `checkPermission()` to avoid an infinite recursion.

You may have less trouble if you use the `Date()` constructor to get the current time rather than the static `Calendar.getInstance()` method.