

```
01: //Invariant declaration
02: @Invariant( "forall(aId : Aid) :- balance(aId) >= 0" )
03: @Invariant( "forall(cId : Cid, aId : Aid) :- userAccount(cId, aId) =>
04:                                     registeredUser(cId)" )
05: public interface Bank{
06:
07:     @decrement(balance(accountId), amount)
08:     boolean withdraw( CId clientId, Aid accountId, Int amount);
09:
10:     @true(userAccount(clientId, accountId))
11:     boolean assignAccount( CId clientId, Aid accountId);
12:
13:     @false(userAccount(clientId, accountId))
14:     boolean remAccount( CId clientId, Aid accountId);
16:
17:     @false(registeredUser(clientId))
18:     boolean endContract( CId clientId);
19:
20: }
```