```
1  contract MechanismHarness {
2    // k-player bounded model
3    uint BID[k]; // symbolic values
4    uint VALUE[k]; // symbolic values
5    for (uint i=0; i<k; i++) {
6      // Example: msg.sender = i
7      require(@individual.id == toStr(i));
8      // Example: msg.value = BID[i]
9      require(@individual.bid == BID[i]);
10     // Example: bid() function inlined
11     @outcome;
12     // Example: ALLOCATE = highestBidder
13     ALLOCATE = @allocate;
14     // Example: PRICE = highestBid
15     PRICE = @price;
16     // Check loop invariant
17     // PRICE = max(BID[0..i]) ∧ ALLOCATE = arg max(BID[0..i])
18     assert( <invariant> );
19   }
20   // Check post condition
21   assert( <property> );
22 }
```