Gold Box challenge June-2021- IBM ODM solution

Here is a single rule solution built using IBM ODM. I tried to keep it pure and simple using a single rule and with no tricks.

```
definitions
        set InBox1 to a boolean in {true,false};
        set InBox2 to a boolean in {true,false};
        set InBox3 to a boolean in {true,false};
if
        none of the following conditions are true :
                - InBox1 and InBox2
                - InBox1 and InBox3
                - InBox2 and InBox3,
         and any of the following conditions is true :
                - (InBox1 and it is not true that (InBox2 is false ) and it is not
true that (InBox1 is false))
                - (it is not true that InBox1 and (InBox2 is false ) and it is not
true that (InBox1 is false))
                - (it is not true that InBox1 and it is not true that (InBox2 is
false ) and (InBox1 is false))
then
        print "Solution: InBox1 = " + InBox1 as a string  ;
        print "          InBox2 = " + InBox2 as a string  ;
        print "          InBox3 = " + InBox3 as a string  ;
```

This generates the following output:

```
Solution: InBox1 = false
          InBox2 = True
          InBox3 = false
```

Description of the solution

The definitions section will generate all possible permutations of true/false for the 3 boxes containing the gold.
The first part of the if condition ensures that the gold can only be in one box - as in only one boolean can have the value true.
The second part has expressions for each of the 3 possibilities where only the 1st, 2nd or 3rd message can be true.
I did have to add a helper method to convert the booleans to strings for use in the print statement.

Regards,
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