

Recipe 0.0. Creating a domain of definition

Table of contents

1 Problem.....	2
2 Definitions.....	2
3 Solution.....	2
4 Discussion.....	2
5 See Also.....	2

1. Problem

You want to create a new domain of definition for any type.

2. Definitions

A domain of definition corresponds to the set of all permitted values (the range) of a specific object type.

3. Solution

In the JPL, each domain of definition has to implement the interface `DomainOfDefinition`:

```
// the domain of definition of all odd integers
public class OddIntegerDoD implements
    private DomainOfDefinition<Integer> {

    public static OddIntegerDoD newInstance() {
        return new OddIntegerDoD();
    }

    public boolean contains(Integer t) {
        return t % 2 == 1;
    }
}

// a new instance
OddIntegerDoD dod = OddIntegerDoD.newInstance();
Assert.assertTrue(dod.contains(3));
```

4. Discussion

Domains of definitions may be integrated in `Condition` as new object to be tested with its specific operator `OperatorBelongsToDoD`.

5. See Also

See also the recipe about the simple domain of definition [interval](#) and about [conditions](#).