Code Coverage

Here I ignore all the class in the java & gov packages.

By running ./bin/jpf +classpath=src/examples/.

+listener=gov.nasa.jpf.CoverageListener Demo, JPF will output the code coverage like the screenshot below

```
Demo.main()
                                             ======= search started: 9/24/19 1:20 AM
Hello world: 42!
Hello world: 42!
Hello world: 42!
Hello world: 42!
           === Coverage ===
        ---- SampleVariable.java ------
          public SampleVariable(int a, double b) {
6
              this.a = a;
              this.b = b;
8
          }
   ----- Demo.java -----
              int a;
6
              a = 19;
              b = 23.3;
8
              s = "prefect";
9
              SampleVariable v = new SampleVariable(91, 89.1);
              System.out.printf("Hello world: %d!\n", Add.add(a, b, s, v));
10
              System.out.printf("Hello world: %d!\n", Add.add(a, b, s, v));
11
12
              v.a = 92;
13
              System.out.printf("Hello world: %d!\n", Add.add(a, b, s, v));
14
15
              System.out.printf("Hello world: %d!\n", Add.add(a, b, s, v));
16
    ----- Add.java -----
            return a + (int) b;
```

Test Code

```
class Demo {
  public static void main(String argv[]) {
    int a;
    double b;
    String s;
    a = 19;
    b = 23.3;
    s = "prefect";
    SampleVariable v = new SampleVariable(91, 89.1);
```

```
System.out.printf("Hello world: %d!\n", Add.add(a, b, s, v));
        System.out.printf("Hello world: %d!\n", Add.add(a, b, s, v));
        v.a = 92;
        System.out.printf("Hello world: %d!\n", Add.add(a, b, s, v));
        v.a = 91;
        System.out.printf("Hello world: %d!\n", Add.add(a, b, s, v));
    }
}
class Add {
    public static int add(int a, double b, String s, SampleVariable v) {
     return a + (int) b;
    }
}
public class SampleVariable {
    public int a;
    double b;
    public SampleVariable(int a, double b) {
        this.a = a;
       this.b = b;
    }
}
```