– MODULE tp3 -

EXTENDS Naturals, Integers, TLC

Constant MAXINT, u, v

```
-termination
- wfNext
--algorithm Power{
 variables x1 = u; 1st integer
             x2 = v;
                         2nd integer
             y1 = 0;
             y2 = 0;
             y3 = 0;
             z = 0;
   l1: \mathbf{print} \langle x1, x2 \rangle;
   y1 := x1;
   y2 := x2;
   y3 := 1;
   l2: while ( y2 \neq 0 ) {
      L3: if (y2\%2 \neq 0) {
        l4: y2 := y2 - 1;
        l5: y3 := y3 * y1;
       };
      l6: y1 := y1 * y1;
      l7: y2 := y2 \div 2;
    };
   l8: z := y3;
    l9: print \langle x1, x2, z \rangle;
```

- $\ \ *$ Modification History
- $\$ * Last modified Thu Sep 29 08:48:11 CEST 2016 by mery