




Read a  
Write a

...  
**Reg1 = a**   
**a = Reg1 + 1**   
*-out of energy-*   
...

initial state

Reg1=∅; a=4;

before power off

Reg1=4; a=5;

**correct:** a=5;

after restart

Reg1=∅; a=5;

after re-execution


Reg1=5; a=6;

**error:** expected a=5;

Reg1 = **volatile**

 **restore** location

a = **non-volatile**

 **power off** location

 **incorrect** after re-execution