

```
1  public class Periodic {
2      Block[] block;
3      public Periodic(int width) {
4          int logSize = 0;
5          int myWidth = width;
6          while (myWidth > 1) {
7              logSize++;
8              myWidth = myWidth / 2;
9          }
10         block = new Block[logSize];
11         for (int i = 0; i < logSize; i++) {
12             block[i] = new Block(width);
13         }
14     }
15     public int traverse(int input) {
16         int wire = input;
17         for (Block b : block) {
18             wire = b.traverse(wire);
19         }
20         return wire;
21     }
22 }
```

FIGURE 12.22 The Periodic network.