

```

1  #include "Wire.h"
2  #include "Gate.h"
3
4  // Constructor
5  Wire::Wire(int inTag)
6  {
7      value = 'x';
8      tag = inTag;
9  }
10
11 // Destructor
12 Wire::~Wire()
13 {
14     for(int i=0; i<driving.size(); i++)
15     {
16         delete driving[i];
17     }
18 }
19
20 // Accessor
21 char Wire::getValue()
22 {
23     return value;
24 }
25
26 // Mutator
27 void Wire::setValue(char val)
28 {
29     value = val;
30     return;
31 }
32
33 // Adds a Gate to the vector of gates the wire drives
34 void Wire::addToDriving(Gate* val)
35 {
36     driving.push_back(val);
37     return;
38 }
39
40 // Calls the update function of each gate in the driving vector
41 int Wire::updateDriving(int time, priority_queue<Event>* eq, int priority)
42 {
43     for(int i=0; i<driving.size(); i++)
44     {
45         Gate* test = driving[i];
46         (*test).update(time, eq, priority);
47         priority++;
48     }
49     return priority;
50 }

```