```
1 using System.Collections.Generic;
2 using UnityEngine;
4 /// <summary>
 5 /// Logical representation of an INPUT gate.
 6 /// </summary>
7 public class InputGate : Circuit
8 {
9
       /// <summary>
       /// Powered status unique to an INPUT gate.
10
       /// </summarv>
11
       private bool powered;
12
13
       public InputGate() : this(Vector2.zero) { }
14
15
16
       public InputGate(Vector2 startingPos) : base("INPUT", 0, 1,
         startingPos) { }
17
18
       /// <summary>
       /// Returns an output to update if the output has changed due to
19
         alterations in input power statuses.
20
       /// </summary>
21
       /// <returns>The list of outputs that should have their connections
         called.</returns>
22
       protected override List<Output> UpdateOutputs()
23
24
           bool outputStatus = Outputs[0].Powered;
25
           List<Output> outputs = new List<Output>();
26
27
           // INPUT gate representation
           Outputs[0].Powered = powered;
28
29
30
           if (outputStatus != Outputs[0].Powered) outputs.Add(Outputs[0]);
31
32
           return outputs;
       }
33
34
35
       /// <summary>
       /// Getter and setter method; setting the powered value of the input
36
         node will also create an update call.
37
       /// </summary>
       public bool Powered { get { return powered; } set { powered = value;
38
         Update(); UpdateChildren(); } }
39 }
```