```
...ty Project\Assets\Scripts\Circuits\Starting\OrGate.cs
```

```
1
```

```
1 using System.Collections.Generic;
2 using UnityEngine;
4 /// <summary>
 5 /// Logical representation of an OR gate.
 6 /// </summary>
7 public class OrGate : Circuit
8 {
9
       public OrGate() : this(Vector2.zero) { }
10
       public OrGate(Vector2 startingPos) : base("OR", 2, 1, startingPos) { }
11
12
13
       /// <summary>
       /// Returns an output to update if the output has changed due to
14
         alterations in input power statuses.
15
       /// </summary>
       /// <returns>The list of outputs that should have their connections
16
         called.</returns>
17
       protected override List<Output> UpdateOutputs()
18
       {
           bool outputStatus = Outputs[0].Powered;
19
20
           List<Output> outputs = new List<Output>();
21
           // OR gate representation
22
23
           Outputs[0].Powered = Inputs[0].Powered || Inputs[1].Powered;
24
           if (outputStatus != Outputs[0].Powered || MaterialNotMatching())
25
             outputs.Add(Outputs[0]);
26
27
           return outputs;
       }
28
29
30
       /// <summary>
       /// Checks all outputs to determine if the output node material is not 🤝
31
         matching its power status.<br/>
32
       /// This is utilized within custom circuits to force update calls that 🤝
         would normally not occur due to the nature of UpdateOutputs().
33
       /// </summary>
34
       /// <returns>Whether any output material does not match its power
         status.</returns>
35
       private bool MaterialNotMatching()
36
       {
37
           if (Outputs[0].StatusRenderer == null) return false;
38
           return (Outputs[0].Powered && Outputs
39
             [0].StatusRenderer.sharedMaterial !=
             CircuitVisualizer.Instance.PowerOnMaterial) ||
                   (!Outputs[0].Powered && Outputs
40
                    [0].StatusRenderer.sharedMaterial !=
```

```
2
```

```
41 }
42 }
```