```
...y Project\Assets\Scripts\Circuits\Starting\NOrGate.cs
```

```
1
```

```
1 using System.Collections.Generic;
2 using UnityEngine;
4 /// <summary>
 5 /// Logical representation of an NOR (NOT OR) gate.<br/>
 6 /// The NOR gate is also a universal gate.
7 /// </summary>
8 public class NOrGate : Circuit
9 {
10
       public NOrGate() : this(Vector2.zero) { }
11
       public NOrGate(Vector2 startingPos) : base("NOR", 2, 1, startingPos)
12
         { }
13
       /// <summarv>
14
15
       /// Returns an output to update if the output has changed due to
         alterations in input power statuses.
16
       /// </summary>
17
       /// <returns>The list of outputs that should have their connections
         called.</returns>
       protected override List<Output> UpdateOutputs()
18
19
       {
20
           bool outputStatus = Outputs[0].Powered;
           List<Output> outputs = new List<Output>();
21
22
23
           // NOR gate representation
           Outputs[0].Powered = !(Inputs[0].Powered || Inputs[1].Powered);
24
25
           if (outputStatus != Outputs[0].Powered || MaterialNotMatching())
26
             outputs.Add(Outputs[0]);
27
28
           return outputs;
29
       }
30
31
       /// <summary>
       /// Checks all outputs to determine if the output node material is not 🤛
32
         matching its power status.<br/><br/>
33
       /// This is utilized within custom circuits to force update calls that 🤝
         would normally not occur due to the nature of UpdateOutputs().
34
       /// </summary>
       /// <returns>Whether any output material does not match its power
35
         status.</returns>
36
       private bool MaterialNotMatching()
37
       {
38
           if (Outputs[0].StatusRenderer == null) return false;
39
40
           return (Outputs[0].Powered && Outputs
             [0].StatusRenderer.sharedMaterial !=
             CircuitVisualizer.Instance.PowerOnMaterial) | |
```