Unit Test Report

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Stephen:
public GraphNode() : base() { }
public GraphNode(T value) : base(value) { }
public GraphNode(T value, NodeList<T> neighbors) : base(value, neighbors) { }
EC1: Nothing is provided.
EC2: Value is provided.
EC3: Value and neighbors are provided and T is of the same type of variable.
EC4: Value and neighbors are provided and T is of differing types of variables.
TC1: GraphNode<GameObject> newNode = new GraphNode();
Expected Output = newNode is a new GraphNode without a value and NodeList.
ECs covered=EC1
TC2: GraphNode<GameObject> newNode = new
GraphNode<GameObject>(GameObject.CreatePrimitive(PrimitiveType.Sphere));
Expected Output = newNode is a new GraphNode with a value of
GameObject.CreatePrimitive(PrimitiveType.Sphere).
ECs covered=EC2
TC3: GraphNode<GameObject> newNode = new
GraphNode<GameObject>(GameObject.CreatePrimitive(PrimitiveType.Sphere), new
NodeList());
Expected Output = newNode is a new GraphNode with a value of
GameObject.CreatePrimitive(PrimitiveType.Sphere) and an empty NodeList<GameObjects>
called neighbors.
ECs covered = EC3
TC4: GraphNode<Int> intNode = new GraphNode(2, new NodeList<string>());
Expected Output = We shouldn't be able to compile.
ECs covered = E4
public Graph() : this(null) {}
public Graph(NodeList<T> nodeSet)
  if (nodeSet == null)
    this.nodeSet = new NodeList<T>();
  else
    this.nodeSet = nodeSet;
}
```

EC1: There is no NodeList<T>

EC2: nodeSet is a NodeList<GameObjects>

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EC3: nodeSet is null
TC1: Graph <
public static GameObject rotateTowardsVector(GraphNode<GameObject> root,
                                              GraphNode<GameObject> test)
{
       GameObject edge = GameObject.CreatePrimitive(PrimitiveType.Cylinder);
       20 lines of code manipulating edge;
       return edge;
}
Expected Output = edge is a Primitive GameObject Cylinder that's position is directly between
root and test, and it's rotation points it along the vector from root to test.
public void AddNode(T value)
{
     nodeSet.Add(new GraphNode<T>(value));
}
EC1: Nothing is provided.
EC2: Value is provided and T is of the same type as the graph it is being added to.
EC2: Value is provided and T is of a different type than the graph it is being added to.
scaleGraph(float scale)
{
       if(scale < .025f)
       {
              scale = .025f;
       }
       if(scale > .1f)
               scale = .1f;
```

```
graphParent.transform.localScale = new Vector3(scale, scale, scale);
}

EC1: Scale is between .025f and .1f
EC2: Scale is greater than .1f
EC3: Scale is less than .025f
```