Unit Test Report

```
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: There is a NodeList<T> provided.
```

EC3: nodeSet is null

```
TC1: Graph <GameObject> newGraph = new Graph();
Expected Output = newGraph is a new Graph without a NodeList
ECs covered = EC1
TC2: Graph <GameObject> newGraph = new Graph(new NodeList<GameObject>())
Expected Output = newGraph is a new Graph with a new NodeList<T> provided.
ECs covered = EC2, EC3
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.
TC1: Graph graph = new Graph();
graph.AddNode();
Expected Output = Should not allow to compile.
ECs covered = EC1
TC2: Graph graph = new Graph(new nodeList<GameObject>());
graph.AddNode(new GameObject());
Expected Output = graph is a new Graph and it will have a new GameObject in its nodeList
ECs covered = EC2
TC3: Graph graph = new Graph(new nodeList<Int>());
graph.AddNode(new GameObject());
Expected Output = Should not allow to compile.
ECs covered = EC3
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

TC1: Scale = .024f
EC covered: EC1
TC2: Scale = .09f
EC covered: EC2
TC3: Scale = .11f
```

EC covered: EC3