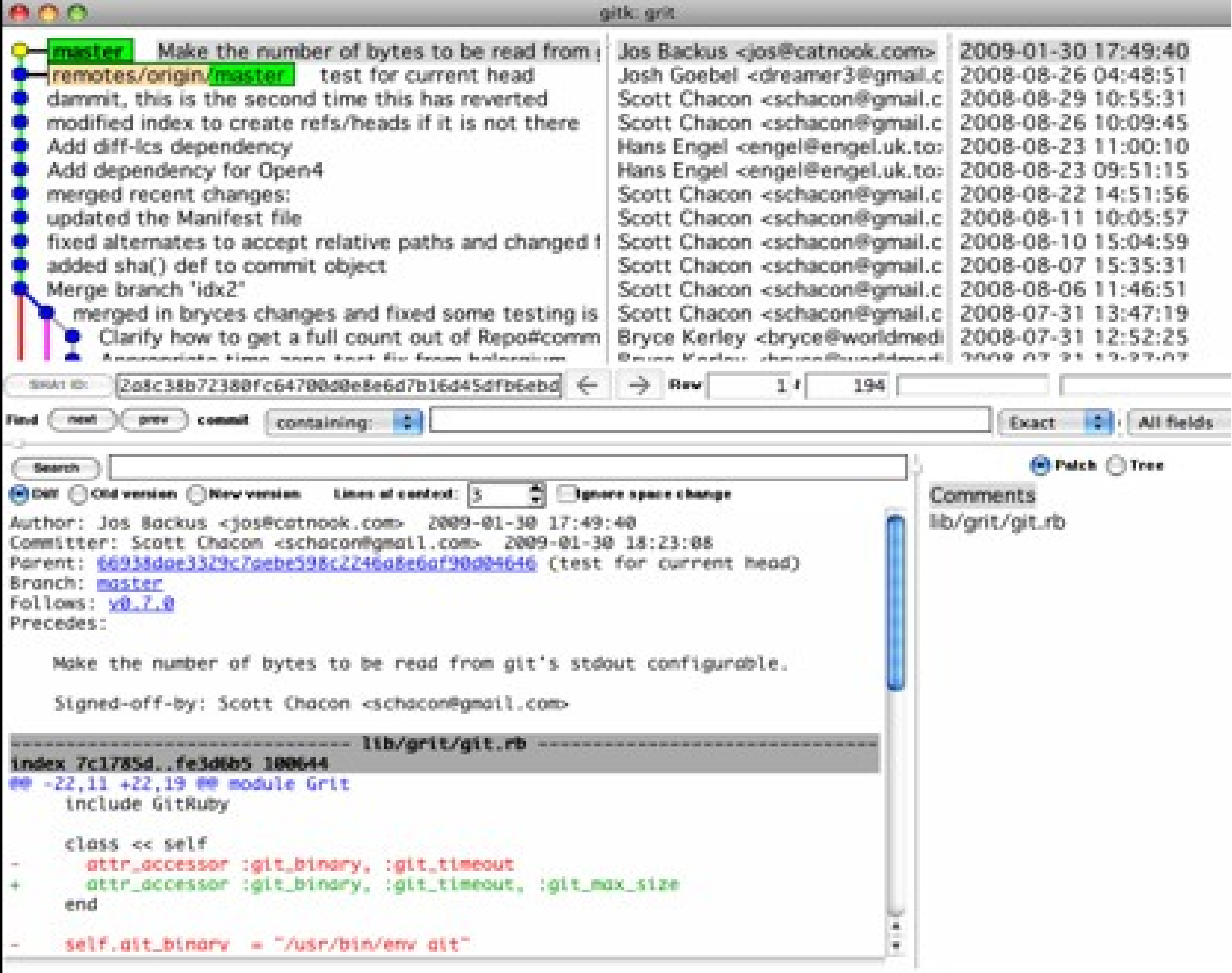
How to get productive on your first day.

Greg Young

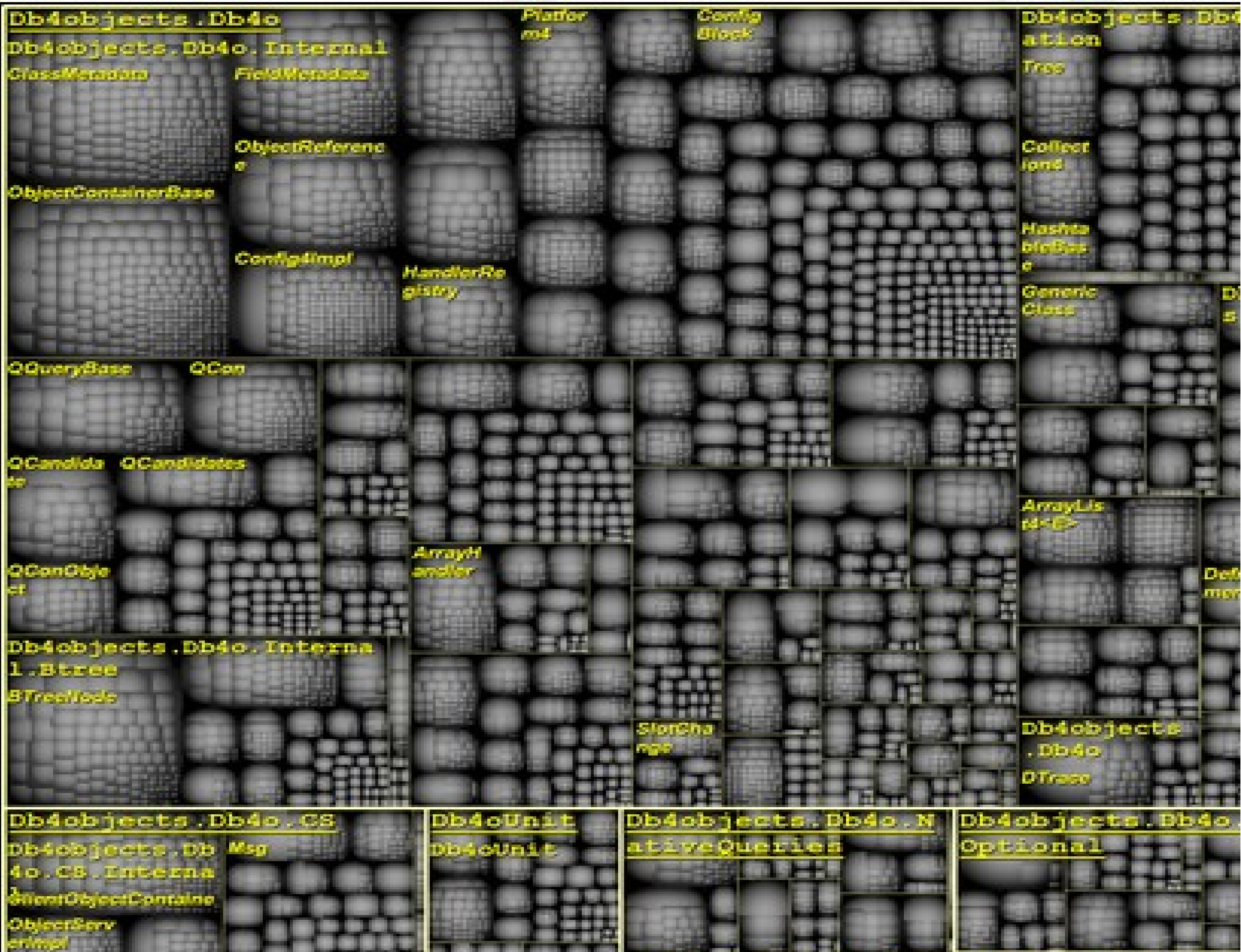
Data about our code is as valuable as the data we produce for our clients.

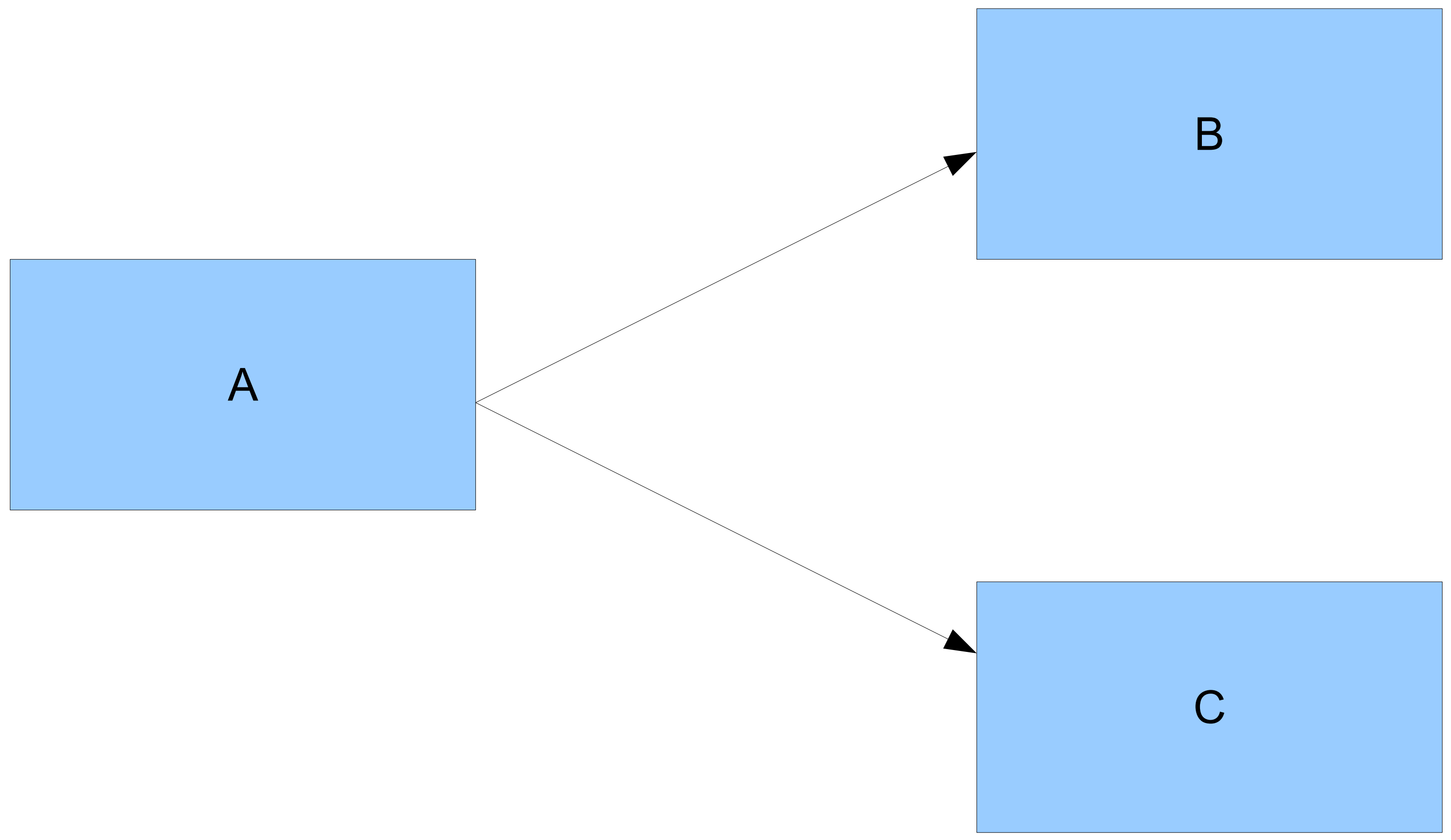


```
master  Make the number of bytes to be read from          Jos Backus <jos@catnook.com>            2009-01-30 17:49:40
remotes/origin/master  test for current head              Josh Goebel <dreamer3@gmail.c           2008-08-26 04:48:51
dammit, this is the second time this has reverted         Scott Chacon <schacon@gmail.c           2008-08-29 10:55:31
modified index to create refs/heads if it is not there    Scott Chacon <schacon@gmail.c           2008-08-26 10:09:45
Add diff-lcs dependency                                   Hans Engel <engel@engel.uk.to:          2008-08-23 11:00:10
Add dependency for Open4                                  Hans Engel <engel@engel.uk.to:          2008-08-23 09:51:15
merged recent changes:                                    Scott Chacon <schacon@gmail.c           2008-08-22 14:51:56
updated the Manifest file                                 Scott Chacon <schacon@gmail.c           2008-08-11 10:05:57
fixed alternates to accept relative paths and changed     Scott Chacon <schacon@gmail.c           2008-08-10 15:04:59
added sha() def to commit object                          Scott Chacon <schacon@gmail.c           2008-08-07 15:35:31
Merge branch 'idx2'                                       Scott Chacon <schacon@gmail.c           2008-08-06 11:46:51
  merged in bryces changes and fixed some testing is      Scott Chacon <schacon@gmail.c           2008-07-31 13:47:19
    Clarify how to get a full count out of Repo#comm      Bryce Kerley <bryce@worldmedi           2008-07-31 12:52:25
```

```
SHA1 ID: 2a8c38b72380fc64700d0e8e6d7b16d45dfb6ebd    Row 1 / 194
```

```
Author: Jos Backus <jos@catnook.com>  2009-01-30 17:49:40
Committer: Scott Chacon <schacon@gmail.com>  2009-01-30 18:23:08
Parent: 66938dae3329c7aebe598c2246a8e6af90d04646 (test for current head)
Branch: master
Follows: v0.7.0
Precedes:

    Make the number of bytes to be read from git's stdout configurable.

    Signed-off-by: Scott Chacon <schacon@gmail.com>

------------------------------- lib/grit/git.rb -------------------------------
index 7c1785d..fe3d6b5 100644
@@ -22,11 +22,19 @@ module Grit
     include GitRuby

     class << self
-      attr_accessor :git_binary, :git_timeout
+      attr_accessor :git_binary, :git_timeout, :git_max_size
     end

-    self.git_binary  = "/usr/bin/env git"
```


Db4objects.Db4o
Db4objects.Db4o.Internal
ClassMetadata
FieldMetadata
Platform4
ConfigBlock
Db4objects.Db4
ation
Tree
Collections
HashtableBase
ObjectReference
ObjectContainerBase
Config4Impl
HandlerRegistry
GenericClass
QQueryBase
QCon
QCandidate
QCandidates
QConObject
ArrayHandler
ArrayList4<E>
Db4objects.Db4o.Internal.Btree
BTreeNode
SlotChange
Db4objects.Db4o
DTrace
Db4objects.Db4o.CS
Db4objects.Db4o.CS.Internal
ClientObjectContainer
ObjectServerImpl
Msg
Db4oUnit
Db4oUnit
Db4objects.Db4o.NativeQueries
Db4objects.Db4o.Optional


A
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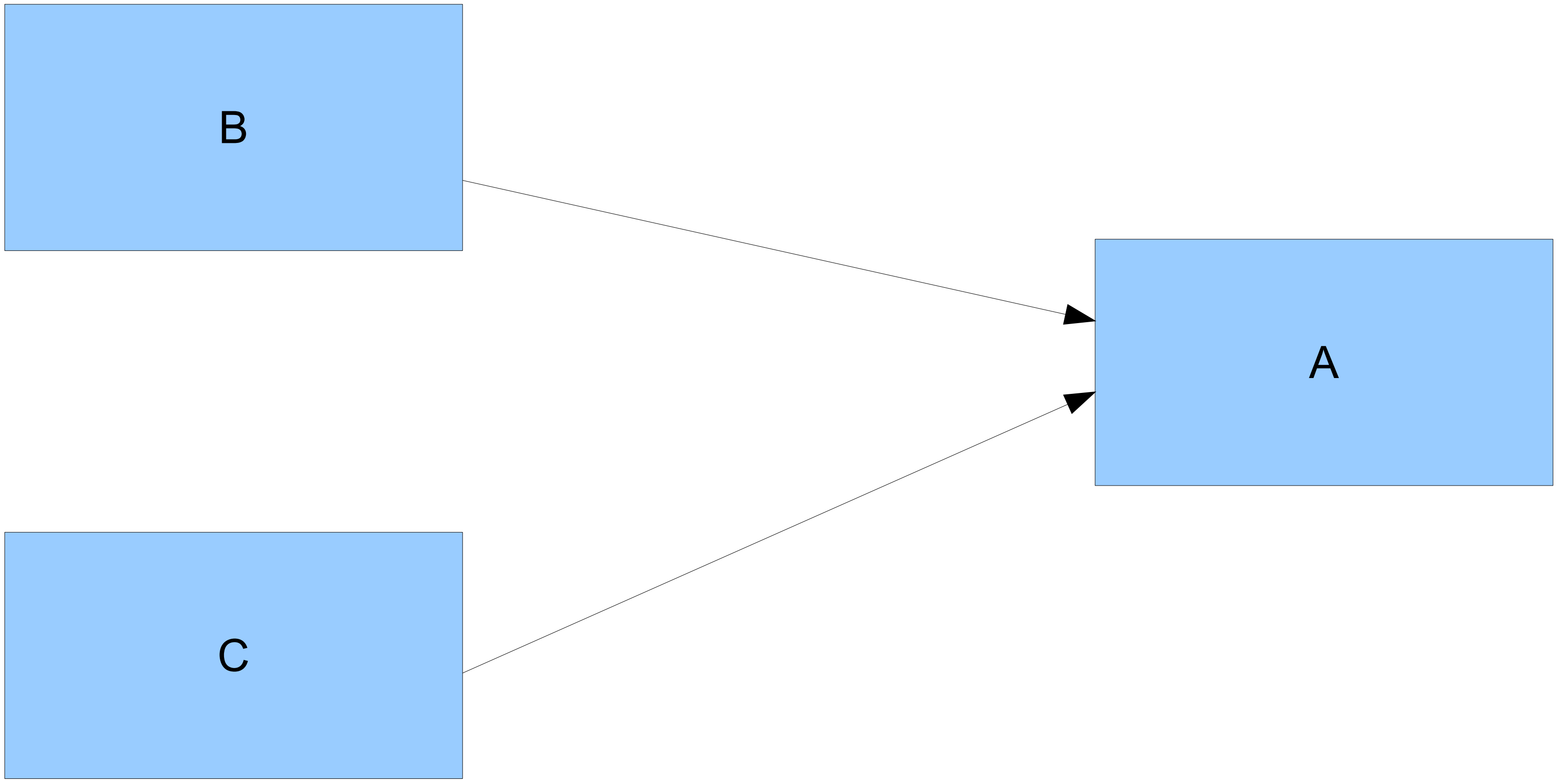
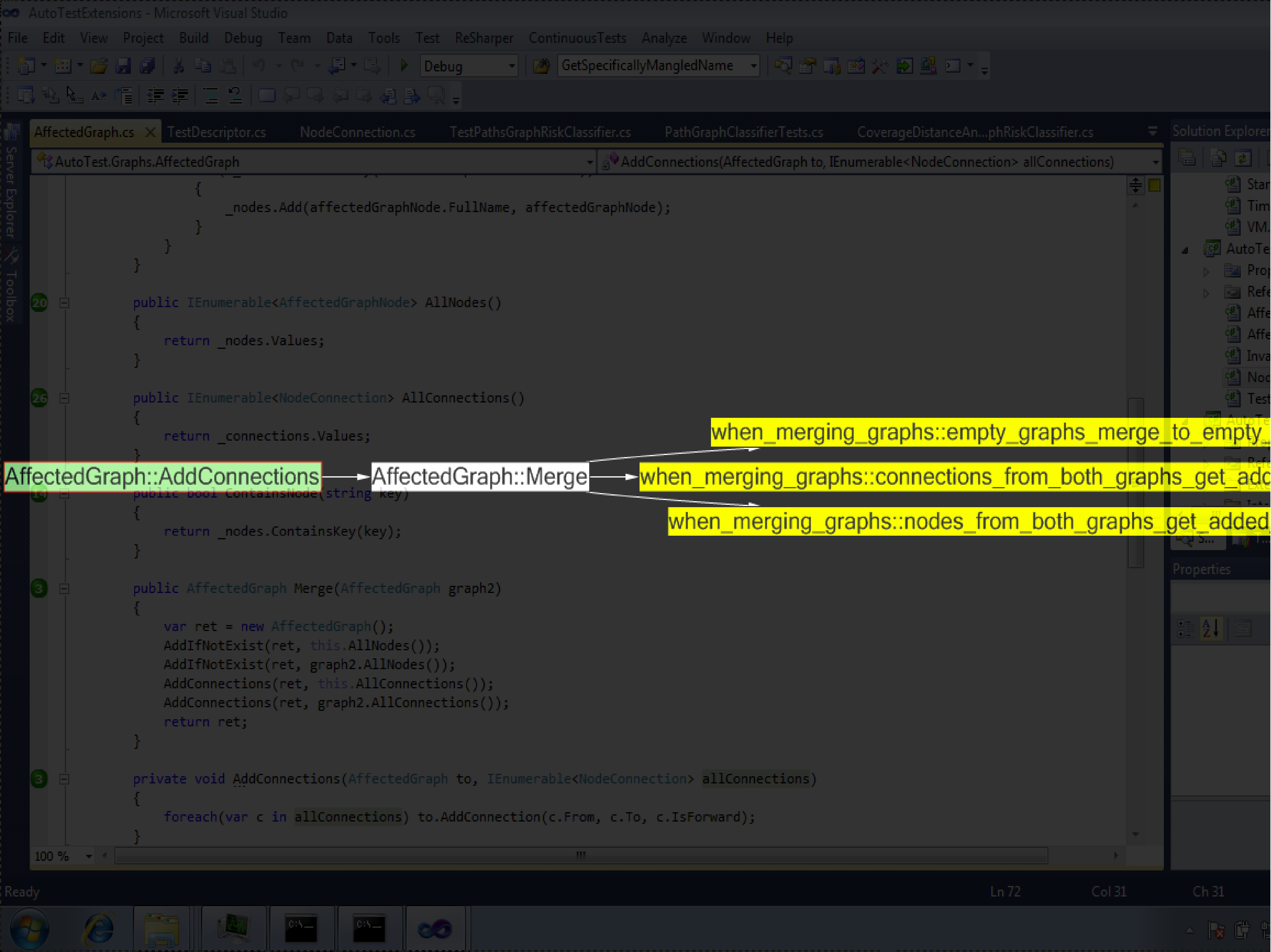
C


B
A
C

$$\begin{tikzcd}
 & \boxed{IB} \\
\boxed{A} \arrow[ur] \arrow[dr] & \\
 & \boxed{IC}
\end{tikzcd}$$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when_merging_graphs::nodes_from_both_graphs_get_added
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Ready
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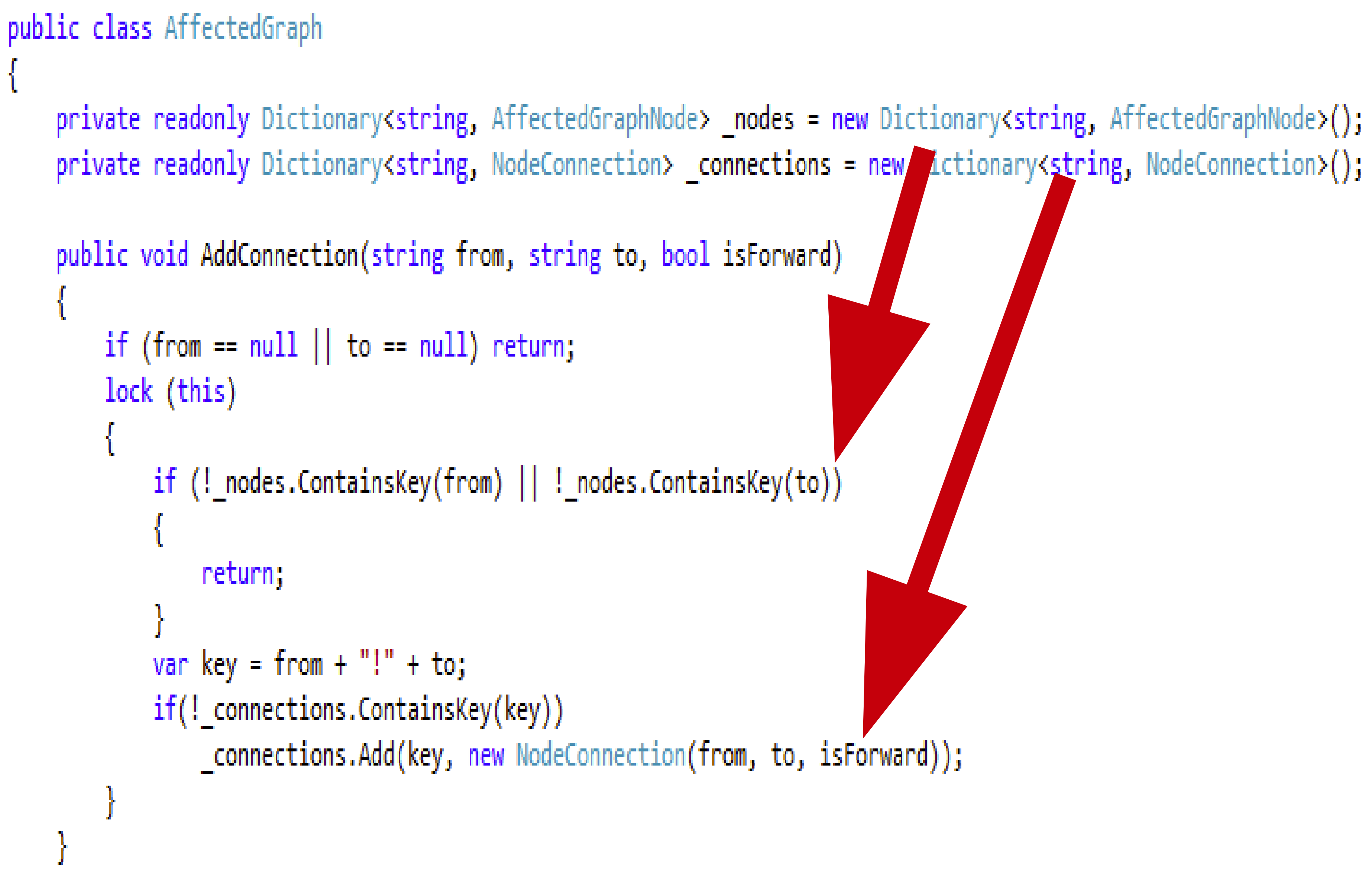
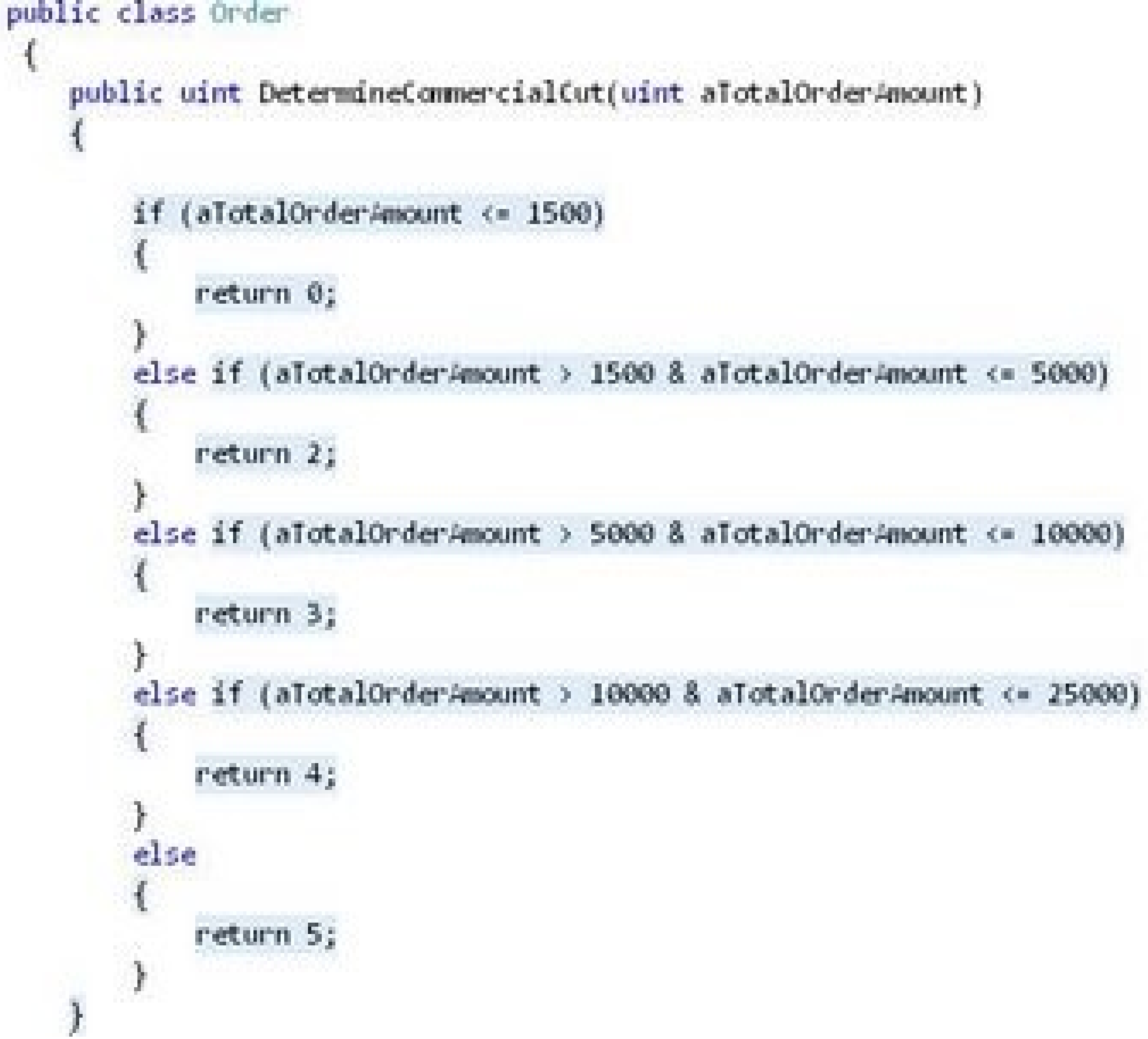
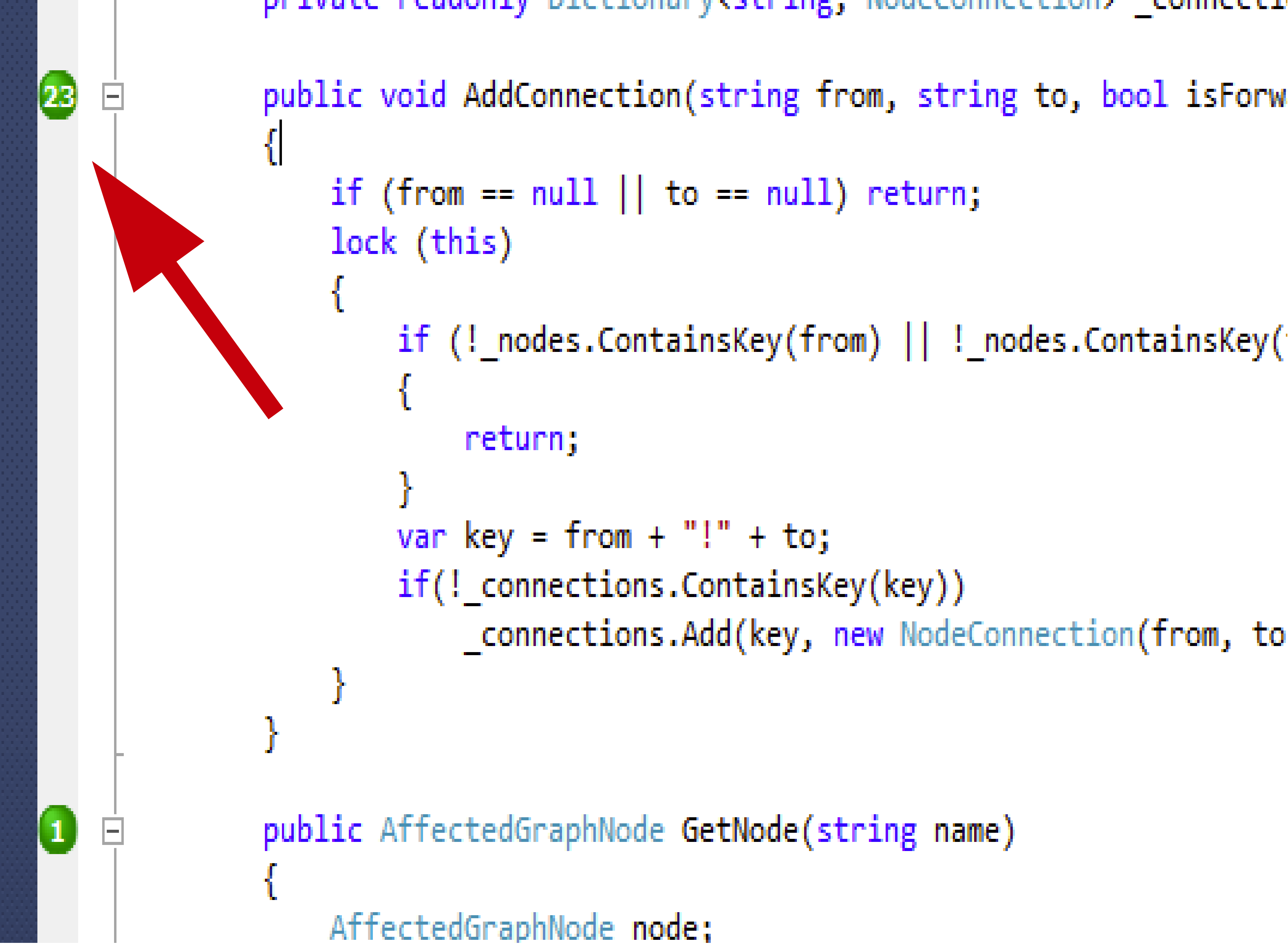
```
            {
                _nodes.Add(affectedGraphNode.FullName, affectedGraphNode);
            }
        }
    }

    public IEnumerable<AffectedGraphNode> AllNodes()
    {
        return _nodes.Values;
    }

    public IEnumerable<NodeConnection> AllConnections()
    {
        return _connections.Values;
    }

    public bool ContainsNode(string key)
    {
        return _nodes.ContainsKey(key);
    }

    public AffectedGraph Merge(AffectedGraph graph2)
    {
        var ret = new AffectedGraph();
        AddIfNotExist(ret, this.AllNodes());
        AddIfNotExist(ret, graph2.AllNodes());
        AddConnections(ret, this.AllConnections());
        AddConnections(ret, graph2.AllConnections());
        return ret;
    }

    private void AddConnections(AffectedGraph to, IEnumerable<NodeConnection> allConnections)
    {
        foreach(var c in allConnections) to.AddConnection(c.From, c.To, c.IsForward);
    }
```



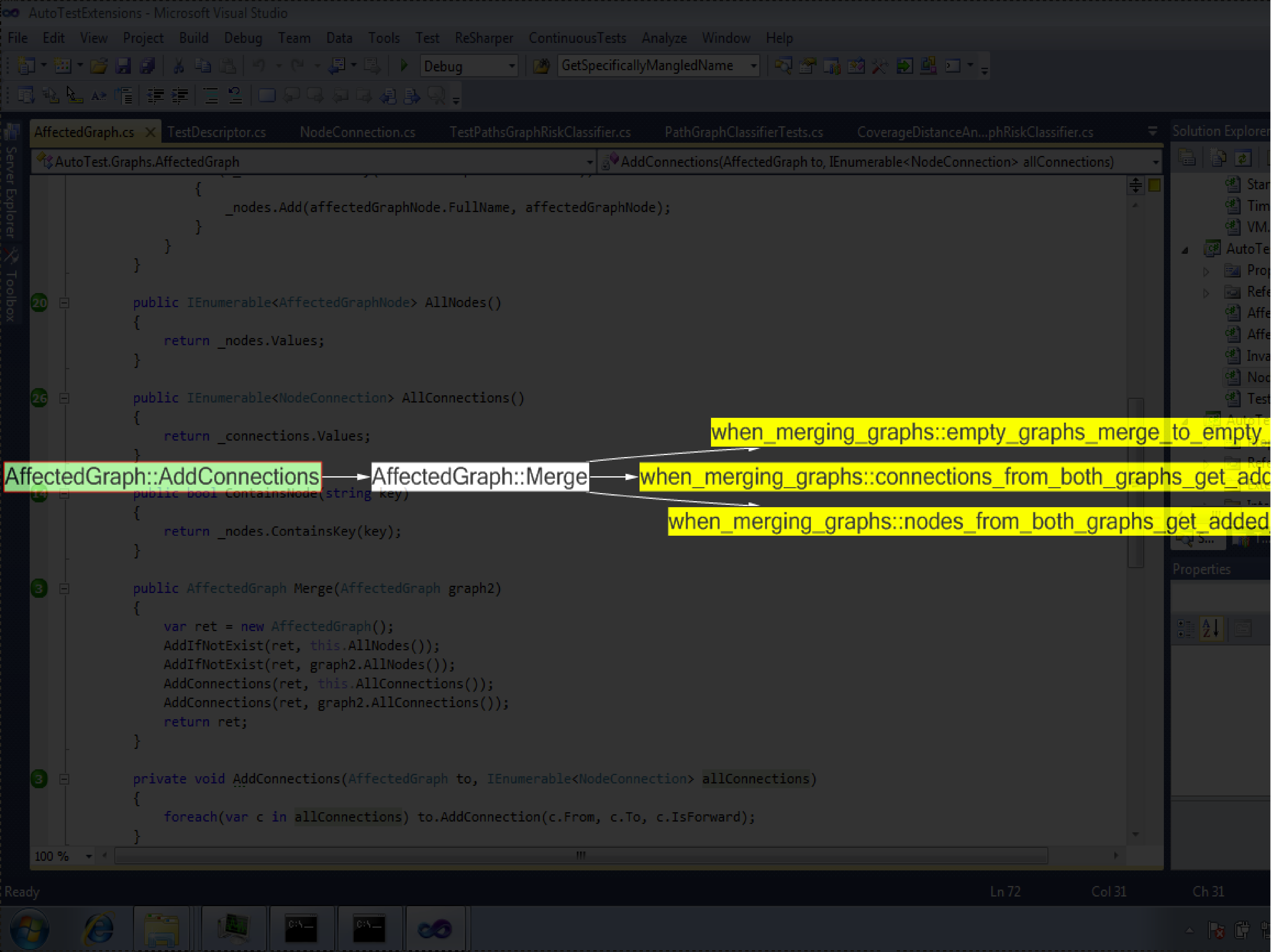
```
public class AffectedGraph
{
    private readonly Dictionary<string, AffectedGraphNode> _nodes = new Dictionary<string, AffectedGraphNode>();
    private readonly Dictionary<string, NodeConnection> _connections = new Dictionary<string, NodeConnection>();

    public void AddConnection(string from, string to, bool isForward)
    {
        if (from == null || to == null) return;
        lock (this)
        {
            if (!_nodes.ContainsKey(from) || !_nodes.ContainsKey(to))
            {
                return;
            }
            var key = from + "!" + to;
            if(!_connections.ContainsKey(key))
                _connections.Add(key, new NodeConnection(from, to, isForward));
        }
    }
```



```
public class Order
 {
    public uint DetermineCommercialCut(uint aTotalOrderAmount)
    {

        if (aTotalOrderAmount <= 1500)
        {
            return 0;
        }
        else if (aTotalOrderAmount > 1500 & aTotalOrderAmount <= 5000)
        {
            return 2;
        }
        else if (aTotalOrderAmount > 5000 & aTotalOrderAmount <= 10000)
        {
            return 3;
        }
        else if (aTotalOrderAmount > 10000 & aTotalOrderAmount <= 25000)
        {
            return 4;
        }
        else
        {
            return 5;
        }
    }
```



```
private readonly Dictionary<string, NodeConnection> _connecti

public void AddConnection(string from, string to, bool isForw
{
    if (from == null || to == null) return;
    lock (this)
    {
        if (!_nodes.ContainsKey(from) || !_nodes.ContainsKey(
        {
            return;
        }
        var key = from + "!" + to;
        if(!_connections.ContainsKey(key))
            _connections.Add(key, new NodeConnection(from, to
    }
}

public AffectedGraphNode GetNode(string name)
{
    AffectedGraphNode node;
```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Ch 31

```
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                _nodes.Add(affectedGraphNode.FullName, affectedGraphNode);
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        AddConnections(ret, graph2.AllConnections());
        return ret;
    }

    private void AddConnections(AffectedGraph to, IEnumerable<NodeConnection> allConnections)
    {
        foreach(var c in allConnections) to.AddConnection(c.From, c.To, c.IsForward);
    }
```
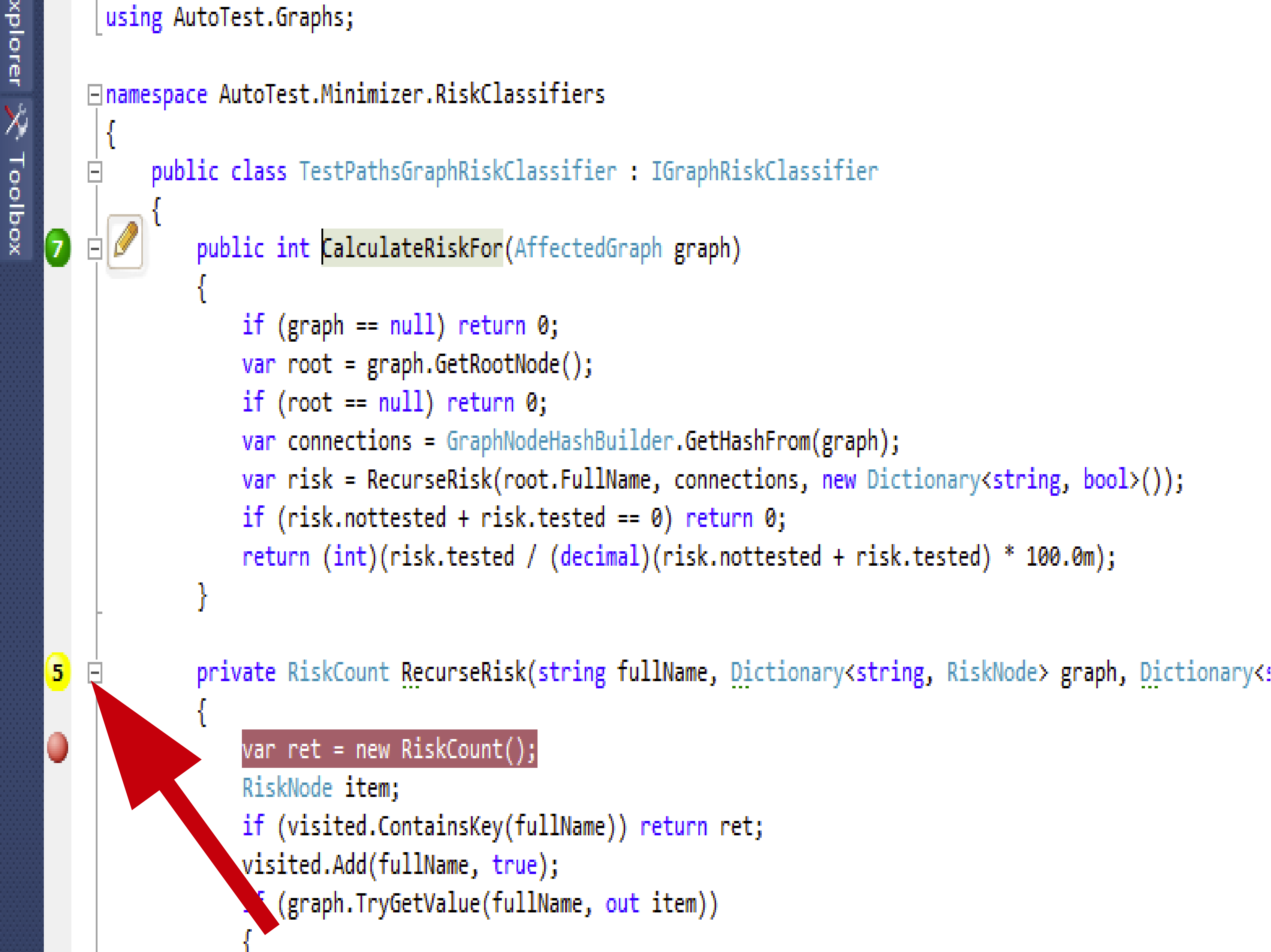

AffectedGraph::AddConnections → AffectedGraph::Merge

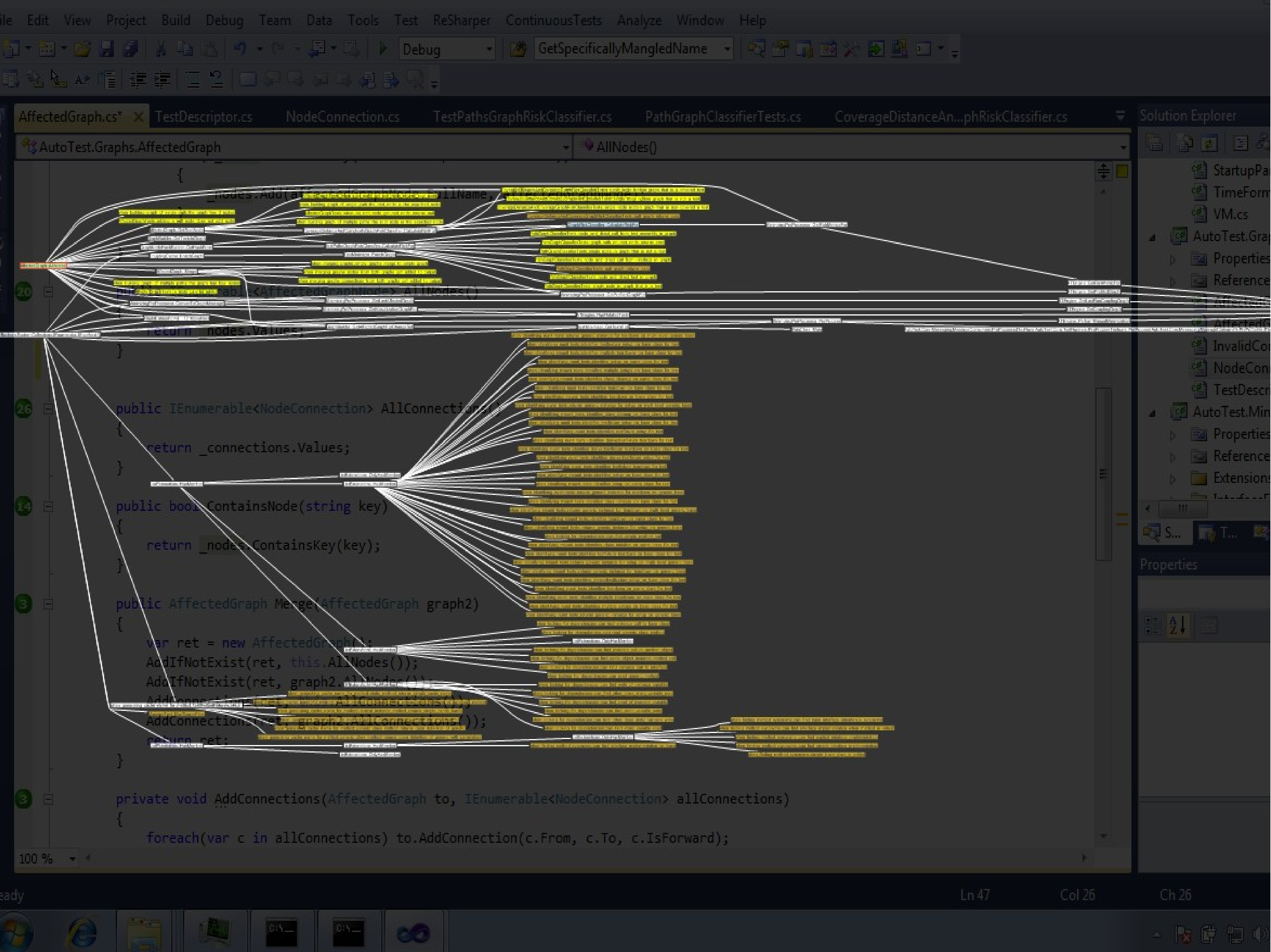
when_merging_graphs::empty_graphs_merge_to_empty_

when_merging_graphs::connections_from_both_graphs_get_adc

when_merging_graphs::nodes_from_both_graphs_get_added



```
using AutoTest.Graphs;

namespace AutoTest.Minimizer.RiskClassifiers
{
    public class TestPathsGraphRiskClassifier : IGraphRiskClassifier
    {
        public int CalculateRiskFor(AffectedGraph graph)
        {
            if (graph == null) return 0;
            var root = graph.GetRootNode();
            if (root == null) return 0;
            var connections = GraphNodeHashBuilder.GetHashFrom(graph);
            var risk = RecurseRisk(root.FullName, connections, new Dictionary<string, bool>());
            if (risk.nottested + risk.tested == 0) return 0;
            return (int)(risk.tested / (decimal)(risk.nottested + risk.tested) * 100.0m);
        }

        private RiskCount RecurseRisk(string fullName, Dictionary<string, RiskNode> graph, Dictionary<s
        {
            var ret = new RiskCount();
            RiskNode item;
            if (visited.ContainsKey(fullName)) return ret;
            visited.Add(fullName, true);
            if (graph.TryGetValue(fullName, out item))
            {
```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```
    {
        _nodes.Add(affectedGraphNode.FullName, affectedGraphNode);
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    return ret;
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private void AddConnections(AffectedGraph to, IEnumerable<NodeConnection> allConnections)
{
    foreach(var c in allConnections) to.AddConnection(c.From, c.To, c.IsForward);
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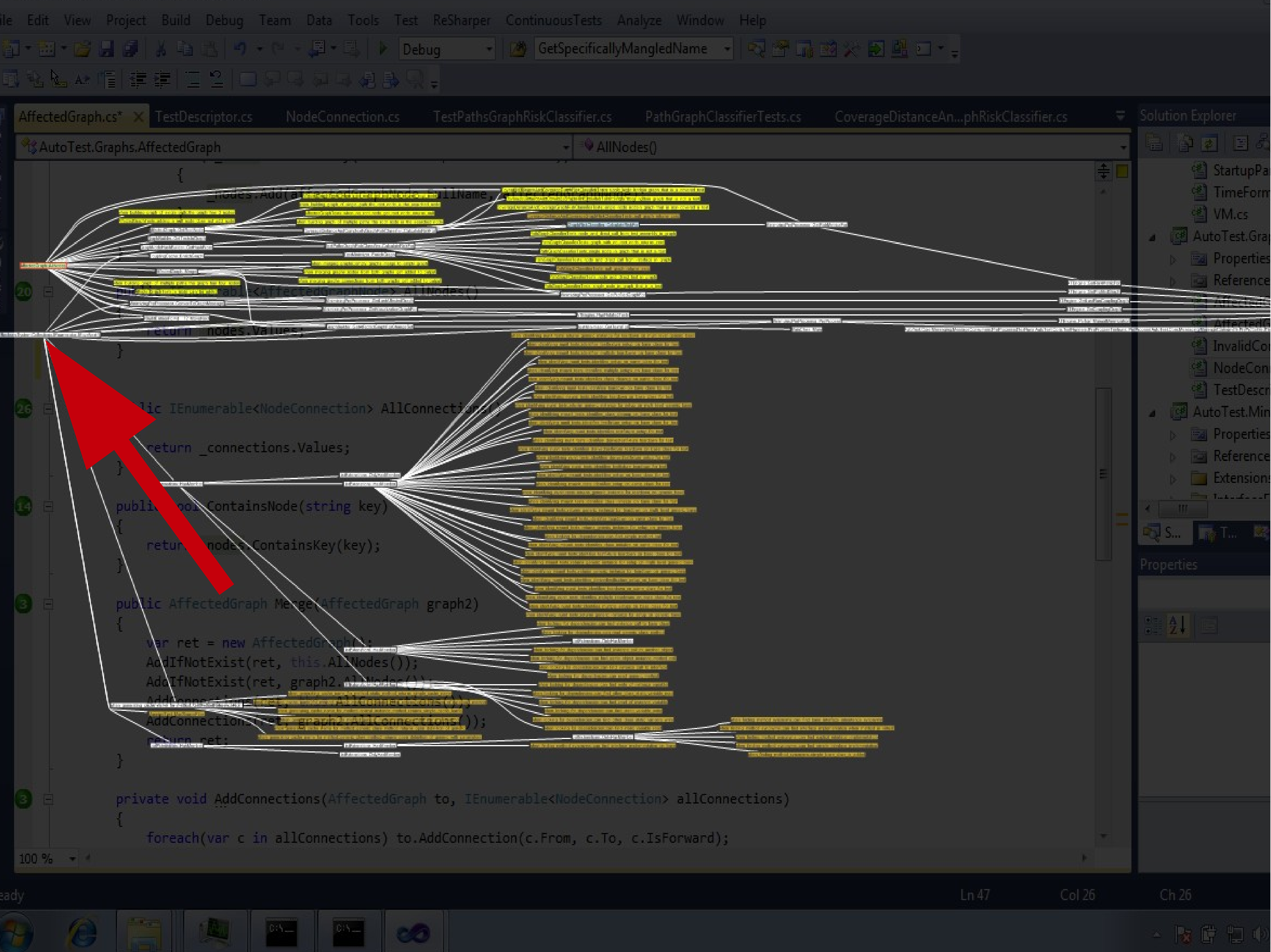
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        private void AddConnections(AffectedGraph to, IEnumerable<NodeConnection> allConnections)
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```

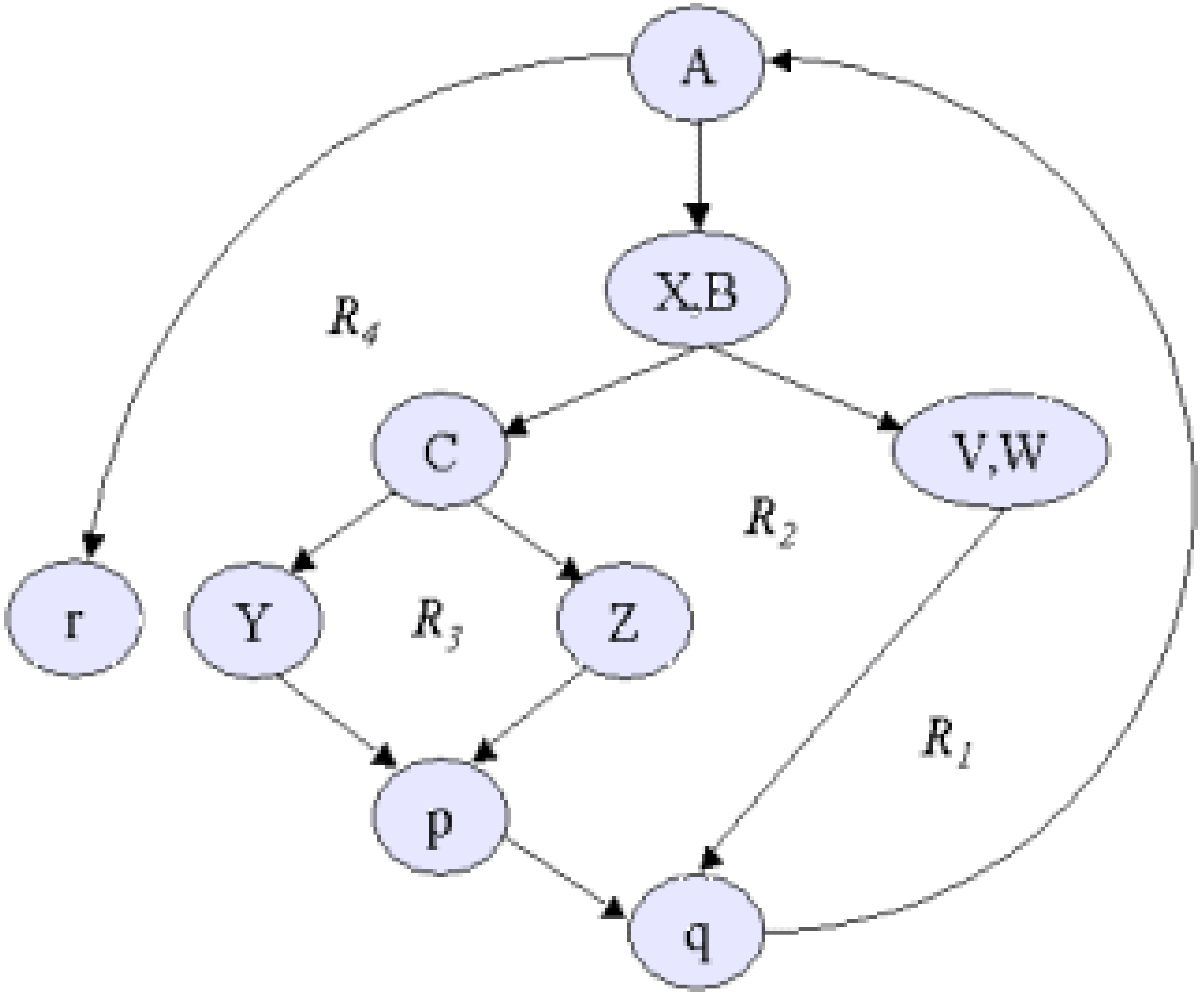
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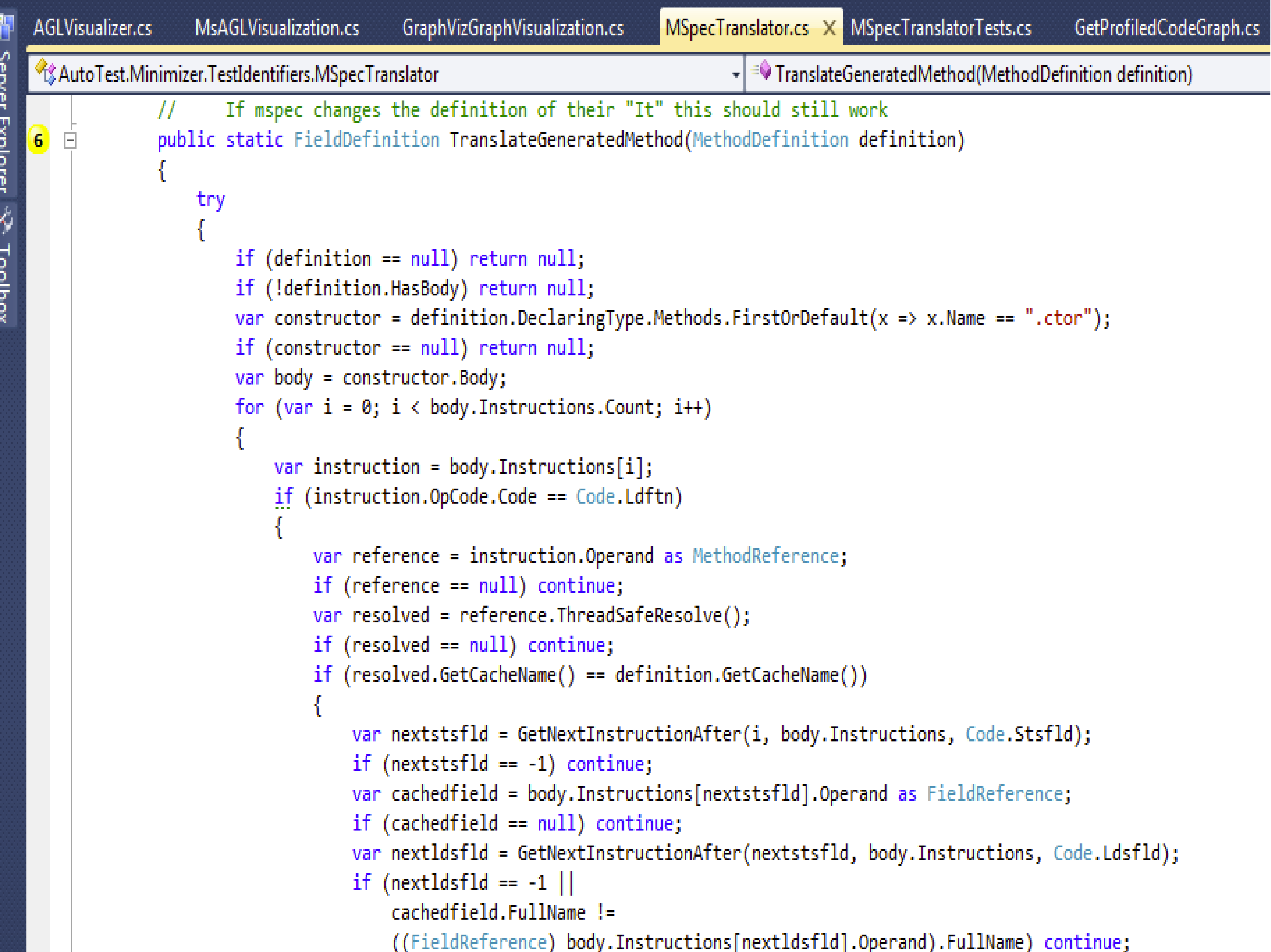
R_4
R_3
R_2
R_1


AGLVisualizer.cs
MsAGLVisualization.cs
GraphVizGraphVisualization.cs
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MSpecTranslatorTests.cs
GetProfiledCodeGraph.cs
AutoTest.Minimizer.TestIdentifiers.MSpecTranslator
TranslateGeneratedMethod(MethodDefinition definition)
Server Explorer
Toolbox
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```
        //     If mspec changes the definition of their "It" this should still work
        public static FieldDefinition TranslateGeneratedMethod(MethodDefinition definition)
        {
            try
            {
                if (definition == null) return null;
                if (!definition.HasBody) return null;
                var constructor = definition.DeclaringType.Methods.FirstOrDefault(x => x.Name == ".ctor");
                if (constructor == null) return null;
                var body = constructor.Body;
                for (var i = 0; i < body.Instructions.Count; i++)
                {
                    var instruction = body.Instructions[i];
                    if (instruction.OpCode.Code == Code.Ldftn)
                    {
                        var reference = instruction.Operand as MethodReference;
                        if (reference == null) continue;
                        var resolved = reference.ThreadSafeResolve();
                        if (resolved == null) continue;
                        if (resolved.GetCacheName() == definition.GetCacheName())
                        {
                            var nextstsfld = GetNextInstructionAfter(i, body.Instructions, Code.Stsfld);
                            if (nextstsfld == -1) continue;
                            var cachedfield = body.Instructions[nextstsfld].Operand as FieldReference;
                            if (cachedfield == null) continue;
                            var nextldsfld = GetNextInstructionAfter(nextstsfld, body.Instructions, Code.Ldsfld);
                            if (nextldsfld == -1 ||
                                cachedfield.FullName !=
                                ((FieldReference) body.Instructions[nextldsfld].Operand).FullName) continue;
```