```
LinksPlatform's Platform.Data.Doublets.Lino Class Library
     ./csharp/Platform.Data.Doublets.Lino/DefaultLinoStorage.cs
   using System.Collections.Generic;
   using Platform.Converters;
2
   using LinoLink = Platform.Communication.Protocol.Lino.Link;
4
   namespace Platform.Data.Doublets.Lino;
5
   public class DefaultLinoStorage<TLinkAddress> : ILinoStorage<TLinkAddress> where TLinkAddress :
       struct
   {
8
       private readonly ILinks<TLinkAddress> _storage;
10
        public DefaultLinoStorage(ILinks<TLinkAddress> storage)
11
12
            _storage = storage;
13
15
        public void CreateLinks(IList<LinoLink> links)
16
17
            var checkedConverter = CheckedConverter<ulong, TLinkAddress>.Default;
18
            for (int i = 0; i < links.Count; i++)</pre>
19
20
                _storage.Create();
21
            }
            for (int i = 0; i < links.Count; i++)</pre>
23
24
                var index = ulong.Parse(links[i].Id);
25
                var source = ulong.Parse(links[i].Values[0].Id);
26
                var target = ulong.Parse(links[i].Values[1].Id);
27
                _storage.Update(checkedConverter.Convert(index), checkedConverter.Convert(source),
28
                 }
        }
30
31
        public IList<LinoLink> GetLinks()
32
33
            var allLinks = _storage.All();
var linoLinks = new List<LinoLink>(allLinks.Count);
34
35
            for (int i = 0; i < allLinks.Count; i++)</pre>
36
            {
37
                var link = new Link<TLinkAddress>(allLinks[i]);
38
                var linoLink = new LinoLink(link.Index.ToString(), new List<LinoLink> {
                → link.Source.ToString(), link.Target.ToString() });
                linoLinks.Add(linoLink);
40
41
            return linoLinks;
42
43
44
   }
45
    ./csharp/Platform.Data.Doublets.Lino/ILinoStorage.cs
   using System.Collections.Generic;
   using Platform.Communication.Protocol.Lino;
   namespace Platform.Data.Doublets.Lino;
5
   public interface ILinoStorage<TLinkAddress>
        void CreateLinks(IList<Link> links);
       IList<Link> GetLinks();
9
10
    ./csharp/Platform.Data.Doublets.Lino/LinoDocumentsStorage.cs
   using System;
   using System.Collections.Generic;
using Platform.Collections.Stacks;
   using Platform.Converters;
   using Platform.Data.Doublets.CriterionMatchers;
   using Platform.Data.Doublets.Numbers.Rational;
   using Platform.Data.Doublets.Numbers.Raw;
   using Platform.Data.Doublets.Sequences;
   using Platform.Data.Doublets.Sequences.Converters;
   using Platform.Data.Doublets.Sequences.HeightProviders;
10
   using Platform.Data.Doublets.Sequences.Walkers;
11
         Platform.Data.Doublets.Unicode;
   using
12
   using Platform.Data.Numbers.Raw;
13
   using Platform. Numbers;
   using LinoLink = Platform.Communication.Protocol.Lino.Link;
15
```

```
namespace Platform.Data.Doublets.Lino;
17
   public class LinoDocumentsStorage<TLinkAddress> : ILinoStorage<TLinkAddress> where TLinkAddress
       : struct
20
            private readonly TLinkAddress _any;
21
            private static readonly TLinkAddress Zero = default;
            private static readonly TLinkAddress One = Arithmetic.Increment(Zero);
23
            // public readonly IConverter<IList<TLinkAddress>?, TLinkAddress>
25
               ListToSequenceConverter;
            private readonly TLinkAddress MeaningRoot;
private readonly EqualityComparer<TLinkAddress> _equalityComparer =
26
27
               EqualityComparer<TLinkAddress>.Default;
            // Converters that are able to convert link's address (UInt64 value) to a raw number
               represented with another UInt64 value and back
            public readonly RawNumberToAddressConverter<TLinkAddress> NumberToAddressConverter =
            \rightarrow new();
            public readonly AddressToRawNumberConverter<TLinkAddress> AddressToNumberConverter =
30
               new();
            // Converters between BigInteger and raw number sequence
            public readonly BigIntegerToRawNumberSequenceConverter<TLinkAddress>
32
               BigIntegerToRawNumberSequenceConverter;
            public readonly RawNumberSequenceToBigIntegerConverter<TLinkAddress>
33
                RawNumberSequenceToBigIntegerConverter;
            // Converters between decimal and rational number sequence
            public readonly DecimalToRationalConverter<TLinkAddress> DecimalToRationalConverter;
35
            public readonly RationalToDecimalConverter<TLinkAddress> RationalToDecimalConverter;
public readonly DefaultSequenceRightHeightProvider<TLinkAddress>
37
                DefaultSequenceRightHeightProvider;
            public readonly DefaultSequenceAppender<TLinkAddress> DefaultSequenceAppender;
38
            public ILinks<TLinkAddress> Storage { get; }
40
            public IConverter<string, TLinkAddress> StringToUnicodeSequenceConverter { get;
41
            public IConverter<TLinkAddress, string> UnicodeSequenceToStringConverter { get; }
42
            public TLinkAddress DocumentMarker { get; }
43
            public TLinkAddress ReferenceMarker { get; }
45
            public TLinkAddress LinkMarker { get;
46
47
            public TLinkAddress LinkWithReferenceMarker { get; }
            private TLinkAddress _markerIndex { get; set;
49
            private IConverter<IList<TLinkAddress>?, TLinkAddress> _listToSequenceConverter;
50
            public LinoDocumentsStorage(ILinks<TLinkAddress> storage,
52
                IConverter<IList<TLinkAddress>?, TLinkAddress> listToSequenceConverter)
53
                Storage = storage;
                // ListToSequenceConverter = listToSequenceConverter;
55
                // Initializes constants
56
                 _any = storage.Constants.Any;
57
                var markerIndex = One;
                MeaningRoot = storage.GetOrCreate(markerIndex, markerIndex);
5.9
                var unicodeSymbolMarker = storage.GetOrCreate(MeaningRoot, Arithmetic.Increment(ref
60
                → markerIndex));
                var unicodeSequenceMarker = storage.GetOrCreate(MeaningRoot,
61
                 → Arithmetic.Increment(ref markerIndex));
                DocumentMarker = storage.GetOrCreate(MeaningRoot, Arithmetic.Increment(ref

→ markerIndex));
                ReferenceMarker = storage.GetOrCreate(MeaningRoot, Arithmetic.Increment(ref
                    markerIndex));
                LinkMarker = storage.GetOrCreate(MeaningRoot, Arithmetic.Increment(ref markerIndex));
                BalancedVariantConverter<TLinkAddress> balancedVariantConverter = new(storage);
                TargetMatcher<TLinkAddress> unicodeSymbolCriterionMatcher = new(storage,

→ unicodeSymbolMarker);

                TargetMatcher<TLinkAddress> unicodeSequenceCriterionMatcher = new(storage,
                    unicodeSequenceMarker);
                CharToUnicodeSymbolConverter<TLinkAddress> charToUnicodeSymbolConverter =
68
                    new(storage, AddressToNumberConverter, unicodeSymbolMarker);
                UnicodeSymbolToCharConverter<TLinkAddress> unicodeSymbolToCharConverter =
70
                    new(storage, NumberToAddressConverter, unicodeSymbolCriterionMatcher);
                StringToUnicodeSequenceConverter = new CachingConverterDecorator<string,
72
                    TLinkAddress>(
                    new StringToUnicodeSequenceConverter<TLinkAddress>(storage,
73
                         charToUnicodeSymbolConverter,
                balancedVariantConverter, unicodeSequenceMarker));
RightSequenceWalker<TLinkAddress> sequenceWalker =
74
75
                    new(storage, new DefaultStack<TLinkAddress>(),
76

→ unicodeSymbolCriterionMatcher.IsMatched);
```

```
UnicodeSequenceToStringConverter = new CachingConverterDecorator<TLinkAddress,</pre>
                    string>(
                     new UnicodeSequenceToStringConverter<TLinkAddress>(storage,
                         unicodeSequenceCriterionMatcher, sequenceWalker,
                         unicodeSymbolToCharConverter));
                 DecimalToRationalConverter = new(storage, BigIntegerToRawNumberSequenceConverter);
80
                 RationalToDecimalConverter = new(storage, RawNumberSequenceToBigIntegerConverter);
                 _listToSequenceConverter = listToSequenceConverter;
82
84
            public TLinkAddress GetOrCreateReferenceLink(string content) =>
85
                Storage.GetOrCreate(ReferenceMarker,
                StringToUnicodeSequenceConverter.Convert(content));
86
            public string ReadReference(TLinkAddress reference) =>
87
                ReadReference(Storage.GetLink(reference));
            public string ReadReference(IList<TLinkAddress> reference)
89
                 var referenceLink = new Link<TLinkAddress>(reference);
91
                 if (!_equalityComparer.Equals(ReferenceMarker, referenceLink.Source))
92
93
                     throw new ArgumentException("The passed link is not a reference");
95
                 return UnicodeSequenceToStringConverter.Convert(referenceLink.Target);
96
98
            public bool IsReference(TLinkAddress reference) =>
99
                IsReference(Storage.GetLink(reference));
100
            public bool IsReference(IList<TLinkAddress> reference) =>
101
                _equalityComparer.Equals(ReferenceMarker, Storage.GetSource(reference));
102
            public void CreateLinks(IList<LinoLink> links)
103
104
                 var sequenceList = new List<TLinkAddress>();
                 for (int i = 0; i < links.Count; i++)</pre>
106
                 ₹
107
                     sequenceList.Add(CreateLink(links[i]));
108
109
                 Storage.GetOrCreate(DocumentMarker, _listToSequenceConverter.Convert(sequenceList));
110
             }
111
112
            public TLinkAddress CreateLink(LinoLink link)
113
                 if (link.Id != null)
115
                 {
116
                     return CreateLinkWithReference(link);
117
                 var valuesSequence = CreateValuesSequence(link);
119
                return Storage.GetOrCreate(LinkMarker, valuesSequence);
120
122
123
            private TLinkAddress CreateLinkWithReference(LinoLink link)
124
                 TLinkAddress currentReference = GetOrCreateReferenceLink(link.Id);
125
                 if (link.Values == null)
126
                 {
127
                     return currentReference;
128
                 }
                 var valuesSequence = CreateValuesSequence(link);
130
                 var idWithValues = Storage.GetOrCreate(currentReference, valuesSequence);
131
                 return Storage.GetOrCreate(LinkWithReferenceMarker, idWithValues);
132
             }
134
            public TLinkAddress CreateValuesSequence(LinoLink parent)
136
                 var values = new List<TLinkAddress>(parent.Values.Count);
137
                 for (int i = 0; i < parent.Values.Count; i++)</pre>
138
139
                     var currentValue = parent.Values[i];
140
                     if (currentValue.Values != null)
141
142
                         var valueLink = CreateLink(currentValue);
143
                         values.Add(valueLink);
144
145
                         continue;
146
                     var currentValueReference = GetOrCreateReferenceLink(currentValue.Id);
147
```

```
values.Add(currentValueReference);
148
                 7
                 return _listToSequenceConverter.Convert(values);
150
             }
151
152
            public IList<LinoLink> GetLinks()
153
154
                 var resultLinks = new List<LinoLink>();
                 var any = Storage.Constants.Any;
156
                 bool IsElement(TLinkAddress linkIndex)
158
                     var source = Storage.GetSource(linkIndex);
159
                     return _equalityComparer.Equals(LinkMarker, source)
160
                         _equalityComparer.Equals(LinkWithReferenceMarker, source) ||
                         Storage.IsPartialPoint(linkIndex);
                 }
161
                 var rightSequenceWalker = new RightSequenceWalker<TLinkAddress>(Storage, new
162
                     DefaultStack<TLinkAddress>(), IsElement);
                 TLinkAddress linksSequence = default;
                 Storage.Each(DocumentMarker, any, link =>
164
165
                     linksSequence = Storage.GetTarget((IList<TLinkAddress>)link);
166
                     return Storage.Constants.Continue;
167
                 });
168
                 if (_equalityComparer.Equals(default, linksSequence))
170
                     throw new Exception("No one link in storage.");
171
                 }
172
                 var sequence = rightSequenceWalker.Walk(linksSequence);
173
                 foreach (var documentLink in sequence)
174
175
                     resultLinks.Add(GetLink(documentLink));
177
178
                 return resultLinks;
179
180
            public LinoLink GetLink(TLinkAddress link) => GetLink(Storage.GetLink(link));
182
             public LinoLink GetLink(IList<TLinkAddress> link)
184
                 string id = default;
                 var values = new List<LinoLink>();
186
                 var linkStruct = new Link<TLinkAddress>(link);
187
                 var isLink = _equalityComparer.Equals(LinkMarker, linkStruct.Source) ||
188
                     _equalityComparer.Equals(LinkWithReferenceMarker, linkStruct.Source);
                 if (!isLink)
                 {
190
                     throw new Exception("The source of the passed link is not the link marker.");
191
                 bool IsElement(TLinkAddress linkIndex)
193
194
                     var source = Storage.GetSource(linkIndex);
195
196
                     return _equalityComparer.Equals(LinkMarker, source) ||
                         _equalityComparer.Equals(LinkWithReferenceMarker, source) ||
                          _equalityComparer.Equals(ReferenceMarker, source) \mid \mid
                         Storage.IsPartialPoint(linkIndex);
                 }
197
                 var rightSequenceWalker = new RightSequenceWalker<TLinkAddress>(Storage, new
198
                 → DefaultStack<TLinkAddress>(), IsElement);
                 foreach (var currentLink in rightSequenceWalker.Walk(linkStruct.Target))
200
                     var currentLinkStruct = new Link<TLinkAddress>(Storage.GetLink(currentLink));
201
                     if (_equalityComparer.Equals(LinkMarker, currentLinkStruct.Source) ||
202
                         _equalityComparer.Equals(LinkWithReferenceMarker, currentLinkStruct.Source))
                         var value = GetLink(currentLinkStruct);
204
                         values.Add(value);
205
                     else if (_equalityComparer.Equals(ReferenceMarker, currentLinkStruct.Source))
207
208
209
                         if (default == id)
                             id = ReadReference(currentLinkStruct);
211
                         }
212
213
                         else
214
                             var currentLinoLink = new LinoLink(ReadReference(currentLinkStruct));
215
                             values.Add(currentLinoLink);
```

```
217
218
219
                 return new LinoLink(id, values);
221
             }
222
223
     ./csharp/Platform.Data.Doublets.Lino/LinoExporter.cs
1.4
    using System.Collections.Generic;
    using Platform.Communication.Protocol.Lino;
    namespace Platform.Data.Doublets.Lino;
 4
    public class LinoExporter<TLinkAddress> where TLinkAddress: struct
 6
        private readonly EqualityComparer<TLinkAddress> _equalityComparer =
 8
            EqualityComparer<TLinkAddress>.Default;
        private readonly ILinoStorage<TLinkAddress> _linoDocumentsStorage;
 q
10
        public LinoExporter(ILinoStorage<TLinkAddress> linoDocumentsStorage)
11
12
             _linoDocumentsStorage = linoDocumentsStorage;
13
14
16
        public string GetAllLinks()
17
             var allLinks = _linoDocumentsStorage.GetLinks();
18
            return allLinks.Format();
19
20
21
        // public void GetAllLinks(Stream outputStream)
22
23
        //
                var allLinks = _linoDocumentsStorage.Storage.All();
        //
                var linksAsStrings = new Dictionary<TLinkAddress, string>(allLinks.Count);
25
                for (int i = 0; i < allLinks.Count; i++)</pre>
26
        //
                    var currentLink = allLinks[i];
        //
                    linksAsStrings.Add(_linoDocumentsStorage.Storage.GetIndex(currentLink),
29
            ReadLinkAsString(currentLink));
         \hookrightarrow
        //
30
        // }
31
        //
32
        // private LinoLink ReadLinkAsString(IList<TLinkAddress> link)
33
        // {
34
        //
                string source = ""
                string target = "";
        //
36
                var linkStruct = new Link<TLinkAddress>(link);
37
38
                if (_linoDocumentsStorage.IsReference(linkStruct.Source))
39
                    source = _linoDocumentsStorage.ReadReference(linkStruct.Source);
40
41
                if (_linoDocumentsStorage.IsReference(linkStruct.Target))
42
43
                {
                    target = _linoDocumentsStorage.ReadReference(linkStruct.Target);
44
        //
                }
        //
                return new LinoLink(source, target);
46
        // }
47
    }
48
     ./csharp/Platform.Data.Doublets.Lino/LinoImporter.cs
1.5
    using Platform.Communication.Protocol.Lino;
 2
    namespace Platform.Data.Doublets.Lino;
 3
 4
    public class LinoImporter<TLinkAddress> where TLinkAddress: struct
 6
        private readonly ILinoStorage<TLinkAddress> _linoDocumentsStorage;
        private readonly Parser _parser = new Parser();
        public LinoImporter(ILinoStorage<TLinkAddress> linoDocumentsStorage)
 9
10
             _linoDocumentsStorage = linoDocumentsStorage;
11
        }
12
13
        public void Import(string content)
14
15
             var linoLinks = _parser.Parse(content);
             _linoDocumentsStorage.CreateLinks(linoLinks);
17
        }
```

```
19
        // public void Import(string content)
21
               var linoLinks = _parser.Parse(content);
22
               for (int i = 0; i < linoLinks.Count; i++)
        //
24
                   var linoLink = linoLinks[i];
25
                   Read(linoLink);
26
27
        // }
28
29
        // public TLinkAddress Read(Link parent)
30
31
        //
               var left = parent.Values[0]
32
33
        //
               var right = parent.Values[1];
        //
               var source = left.Values != null ? Read(left)
            _linoDocumentsStorage.GetOrCreateReferenceLink(left.Id);
               var target = right.Values != null ? Read(right) :
35
            _linoDocumentsStorage.GetOrCreateReferenceLink(right.Id);
               return _linoDocumentsStorage.Storage.GetOrCreate(source, target);
36
        // }
37
   }
1.6
    ./csharp/Platform.Data.Doublets.Lino/LinoImporterCli.cs
   using Platform.Data.Doublets.Memory.United.Generic;
          Platform.IO;
   using Platform.Memory;
   namespace Platform.Data.Doublets.Lino;
   public class LinoImporterCli<TLinkAddress>
        public void Run(params string[] args)
9
10
            var argumentsIndex = 0;
11
            // var notationFilePath = ConsoleHelpers.GetOrReadArgument(argumentsIndex++, "Path to a
12
            → notation file", args);
            // var storageFilePath = ConsoleHelpers.GetOrReadArgument(argumentsIndex, "Path to a
               links storage", args);
            // var linksMemory = new FileMappedResizableDirectMemory(storageFilePath);
            // var links = new UnitedMemoryLinks<TLinkAddress>(linksMemory).DecorateWithAutomaticUni
15

→ quenessAndUsagesResolution();

            // var linoStorage = new DefaultLinoStorage<TLinkAddress>();
16
            // var importer = new LinoImporter<TLinkAddress>()
17
       }
19
     ./csharp/Platform.Data.Doublets.Lino.Tests/ImporterAndExporterTests.cs
1.7
   using Platform.Converters;
   using Platform.Data.Doublets.CriterionMatchers;
   using Platform.Data.Doublets.Memory;
using Platform.Data.Doublets.Memory.United.Generic;
3
   using Platform.Data.Doublets.Sequences.Converters;
   using Platform.Data.Doublets.Unicode;
   using Platform.Data.Numbers.Raw;
   using Platform. Memory;
   using Platform. Numbers;
9
         Xunit
10
   using
   using TLinkAddress = System.UInt64;
11
12
   namespace Platform.Data.Doublets.Lino.Tests;
13
14
   public class ImporterAndExporterTests
16
       public static ILinks<TLinkAddress> CreateLinks() => CreateLinks(new IO.TemporaryFile());
17
18
        public static ILinks<TLinkAddress> CreateLinks(string dbFilename)
19
20
            var linksConstants = new LinksConstants<TLinkAddress>(enableExternalReferencesSupport:
            return new UnitedMemoryLinks<TLinkAddress>(new HeapResizableDirectMemory(),
                UnitedMemoryLinks<TLinkAddress>.DefaultLinksSizeStep, linksConstants,
                IndexTreeType.Default);
24
        // [InlineData("(1: 1 1)")]
        // [InlineData("(1: 1 1)\n(2: 2 2)")]
           [InlineData("(1: 2 2)\n(2: 1 1)")]
27
        // [Theory]
```

```
// public void Test1(string notation)
29
        //
               var storage = CreateLinks();
31
               TLinkAddress Zero = default;
32
               TLinkAddress One = Arithmetic.Increment(Zero);
        //
               var markerIndex = One;
34
        //
               var meaningRoot = storage.GetOrCreate(markerIndex, markerIndex);
35
        //
               var unicodeSymbolMarker = storage.GetOrCreate(meaningRoot, Arithmetic.Increment(ref
36
            markerIndex));
        //
               var unicodeSequenceMarker = storage.GetOrCreate(meaningRoot, Arithmetic.Increment(ref
            markerIndex));
        //
               var referenceMarker = storage.GetOrCreate(meaningRoot, Arithmetic.Increment(ref
            markerIndex));
        //
               TargetMatcher<TLinkAddress> unicodeSymbolCriterionMatcher = new(storage,
39
            unicodeSymbolMarker);
        //
               TargetMatcher<TLinkAddress> unicodeSequenceCriterionMatcher = new(storage,
40
            unicodeSequenceMarker);
        //
               AddressToRawNumberConverter<TLinkAddress> addressToNumberConverter = new();
41
        //
               RawNumberToAddressConverter<TLinkAddress> numberToAddressConverter = new();
42
        //
               CharToUnicodeSymbolConverter<TLinkAddress> charToUnicodeSymbolConverter =
43
               new(storage, addressToNumberConverter, unicodeSymbolMarker);
UnicodeSymbolToCharConverter<TLinkAddress> unicodeSymbolToCharConverter =
        //
44
        //
        //
                   new(storage, numberToAddressConverter, unicodeSymbolCriterionMatcher);
46
        //
               var balancedVariantConverter = new BalancedVariantConverter<TLinkAddress>(storage);
47
        //
               var stringToUnicodeSequenceConverter = new CachingConverterDecorator<string,</pre>
48
            TLinkAddress>(new StringToUnicodeSequenceConverter<TLinkAddress>(storage,
            charToUnicodeSymbolConverter, balancedVariantConverter, unicodeSequenceMarker));
        //
               ILinoDocumentsStorage<TLinkAddress> linoDocumentsStorage = new
            LinoDocumentsStorage<TLinkAddress>(storage);
        //
               LinoImporter<TLinkAddress> linoImporter = new(linoDocumentsStorage);
50
        //
               linoImporter.Import(notation);
51
52
               var linoExporter = new LinoExporter<TLinkAddress>(linoDocumentsStorage);
        // }
53
        [InlineData("(1: 1 1)")]
        [InlineData("(1: 1 1)\n(2: 2 2)")]
56
        [InlineData("(1: 2 2)")]
57
        [InlineData("(1: 2 2)\n(2: 1 1)")]
        [Theory]
59
        public void LinoStorageTest(string notation)
60
61
            var storage = CreateLinks();
62
            var linoStorage = new DefaultLinoStorage<TLinkAddress>(storage);
63
            var importer = new LinoImporter<TLinkAddress>(linoStorage);
64
            importer.Import(notation);
            var exporter = new LinoExporter<TLinkAddress>(linoStorage);
66
            var exportedLinks = exporter.GetAllLinks();
67
            Assert.Equal(notation, exportedLinks);
68
69
70
        [InlineData("(1: 1 1)")]
71
        [InlineData("(1: 1 1)\n(2: 2 2)")]
72
        [InlineData("(2: 2 2)")]
73
        [InlineData("(1: 2 2)")]
74
        [InlineData("(1: 2 2)\n(2: 1 1)")]
75
        [InlineData("(1: 2 (3: 3 3))")]
76
        [InlineData("(1: 2 (3: 3 3))\n(2: 1 1)")]
77
        [InlineData("(son: lovesMama)")]
78
        [InlineData("(papa: (lovesMama: loves mama))")]
79
        [InlineData("(papa: (lovesMama: loves mama) son lovesMama daughter lovesMama all (love:
80
       mama))")]
        [Theory]
        public void LinoDocumentStorageTest(string notation)
82
83
            var storage = CreateLinks();
84
            var linoStorage = new LinoDocumentsStorage<TLinkAddress>(storage, new
                BalancedVariantConverter<ulong>(storage));
            var importer = new LinoImporter<TLinkAddress>(linoStorage);
86
            importer.Import(notation);
87
            var exporter = new LinoExporter<TLinkAddress>(linoStorage);
88
            var exportedLinks = exporter.GetAllLinks();
89
            Assert.Equal(notation, exportedLinks);
90
91
92
        // public void CreateLinksTest()
93
               var storage = CreateLinks();
```

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