```
1 // Copywrite (c) 2022 Swopblock LLC
 2 // See https://github.com/swopblock
 4 namespace Swopblock.Liquidity
 5 {
       public interface IMain : IBranches, ILiquidity
 6
 7
 8
            public decimal CashBalance { get; set; }
 9
10
            public decimal CashVolume { get; set; }
        }
11
12
       public interface IBranches
13
14
        {
            public IBranch[] Branches { get; set; }
15
16
        }
17
18
        public interface IBranch : IAccounts, ILiquidity
19
        {
            public IMain Supply { get; set; }
20
21
22
            public IMain Demand { get; set; }
23
            public decimal CashBalance { get; set; }
24
25
26
            public decimal CashVolume { get; set; }
27
28
            public decimal AssetBalance { get; set; }
29
30
            public decimal AssetVolume { get; set; }
        }
31
32
33
        public interface IAccounts
34
35
            public IAccount[] Accounts { get; set; }
36
        }
37
38
        public interface IAccount : IAddresses, ILiquidity
39
            public IBranch Supply { get; set; }
40
41
42
            public IBranch Demand { get; set; }
43
44
            public decimal CashBalance { get; set; }
45
            public decimal CashVolume { get; set; }
46
47
48
            public decimal AssetBalance { get; set; }
49
```

```
...ffHilde\source\repos\swop\LiquidityInterfaces.cs
```

```
2
```

```
50
            public decimal AssetVolume { get; set; }
51
        }
52
53
        public interface IAddresses
54
            public IAddress[] Addresses { get; set; }
55
        }
56
57
        public interface IAddress : IOutputs, ILiquidity
58
59
            public IAccount Supply { get; set; }
60
61
            public IAccount Demand { get; set; }
62
63
            public decimal CashBalance { get; set; }
64
65
            public decimal CashVolume { get; set; }
66
67
68
            public decimal AssetBalance { get; set; }
69
            public decimal AssetVolume { get; set; }
70
71
        }
72
       public interface IOutputs
73
74
75
            public IOutput[] Outputs { get; set; }
76
        }
77
       public interface IOutput : Inputs, ILiquidity
78
79
            public IAddress Supply { get; set; }
80
81
82
            public IAddress Demand { get; set; }
83
84
            public decimal CashBalance { get; set; }
85
            public decimal CashVolume { get; set; }
86
87
            public decimal AssetBalance { get; set; }
88
89
            public decimal AssetVolume { get; set; }
90
        }
91
92
93
       public interface Inputs
94
        {
            public IInput[] Inputs { get; set; }
95
96
        }
97
       public interface IInput : IMatches, ILiquidity
98
```

```
...ffHilde\source\repos\swop\LiquidityInterfaces.cs
```

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3
```

```
99
100
             public IOutput Supply { get; set; }
101
             public IOutput Demand { get; set; }
102
103
             public decimal CashBalance { get; set; }
104
105
             public decimal CashVolume { get; set; }
106
107
108
             public decimal AssetBalance { get; set; }
109
             public decimal AssetVolume { get; set; }
110
        }
111
112
        public interface IMatches
113
114
             public IMatch[] Matches { get; set; }
115
116
        }
117
        public interface IMatch : ILiquidity
118
119
120
             public IInput Supply { get; set; }
121
             public IInput Demand { get; set; }
122
123
124
             public decimal CashBalance { get; set; }
125
126
             public decimal CashVolume { get; set; }
127
128
             public decimal AssetBalance { get; set; }
129
             public decimal AssetVolume { get; set; }
130
131
             public IMatch SwopEqualibrium()
132
133
                 // Swopblock LLC sofware license to be available.
134
135
136
                 return (IMatch)this;
             }
137
138
             public void SwopCustody(IMatch Match)
139
140
141
                 // Swopblock LLC sofware license to be available.
142
143
                 return;
144
             }
145
146
        }
147
```

```
...ffHilde\source\repos\swop\LiquidityInterfaces.cs
```

```
public interface ISupply : ILiquidity
148
149
150
            public IMatch Supply { get; set; }
151
            public IMatch Demand { get; set; }
152
153
        }
154
        public interface IDemand : ILiquidity
155
156
        {
            public decimal CashBalance { get; set; }
157
158
            public decimal CashVolume { get; set; }
159
160
            public decimal AssetBalance { get; set; }
161
162
163
            public decimal AssetVolume { get; set; }
        }
164
165
166
        public interface ILiquidity { }
167 }
168
```

4