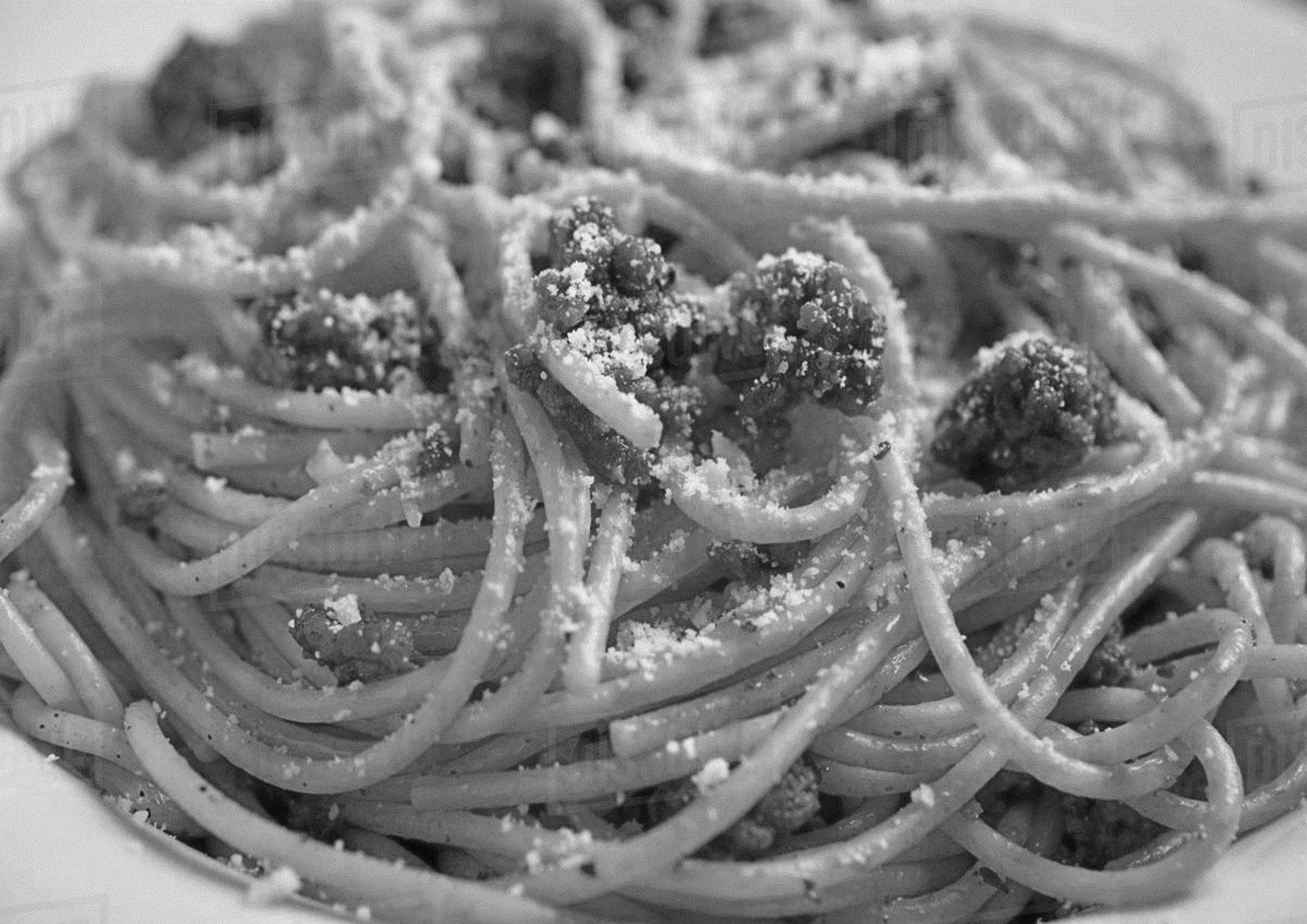


Dynamo Part 01

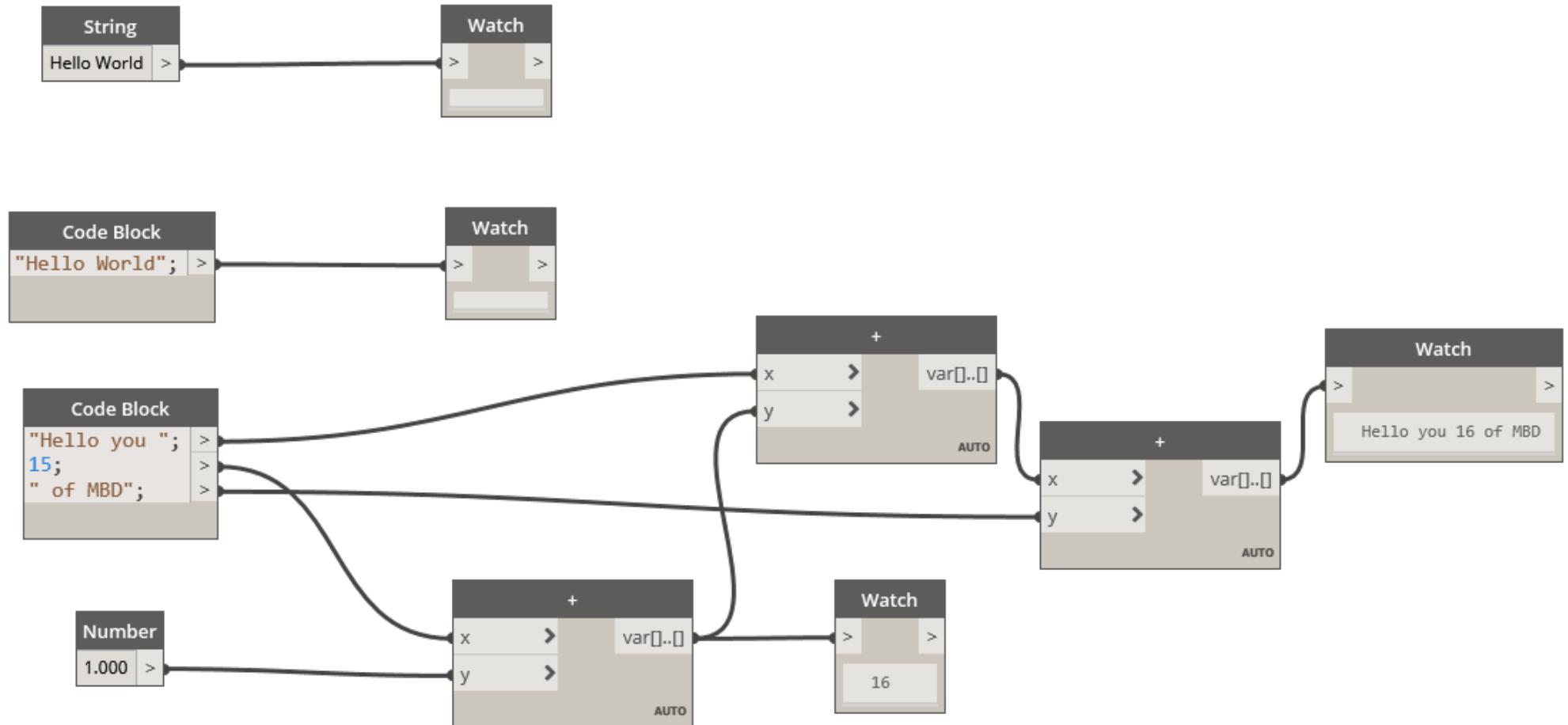
DIM_03

12.09.2024

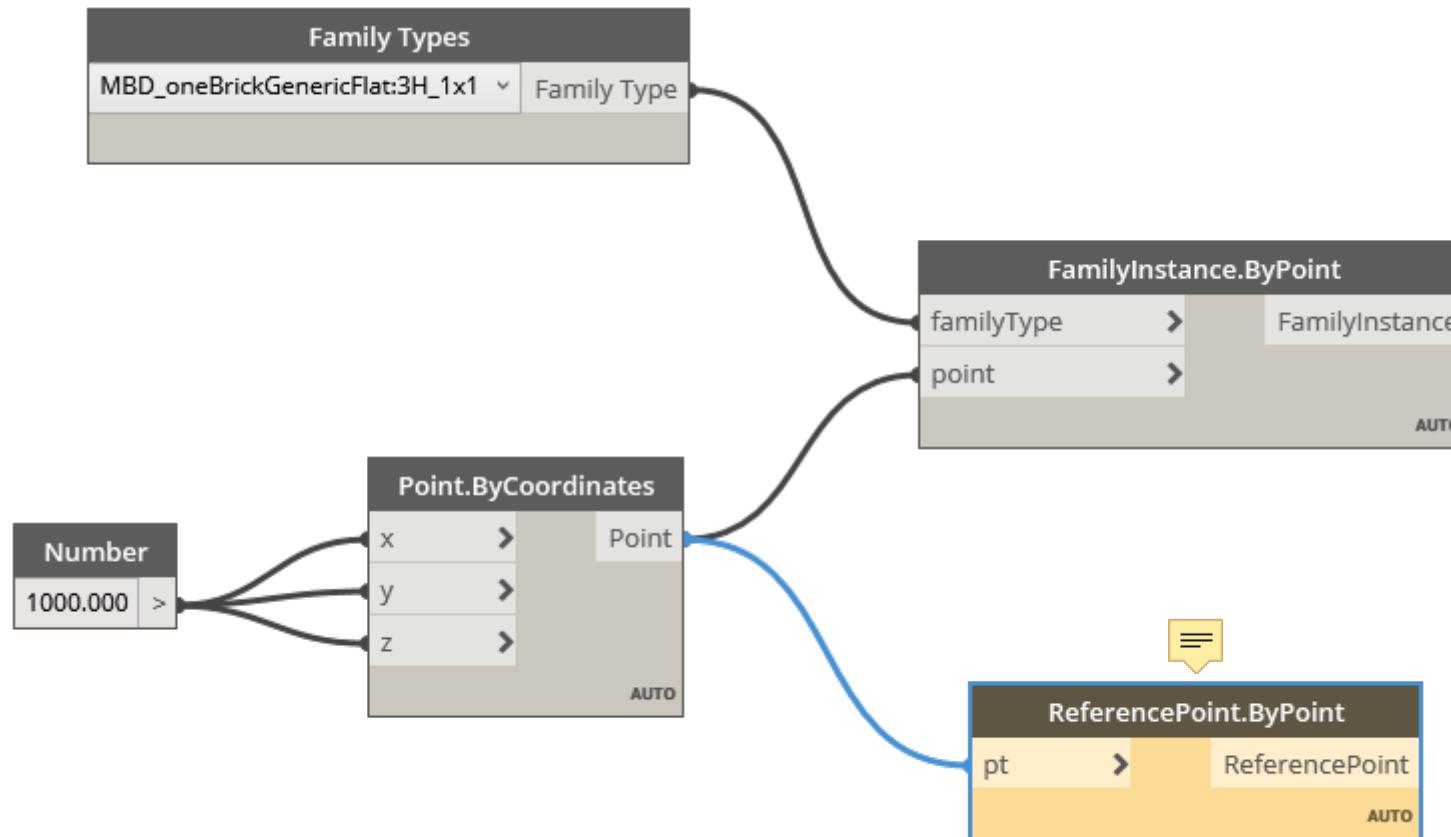




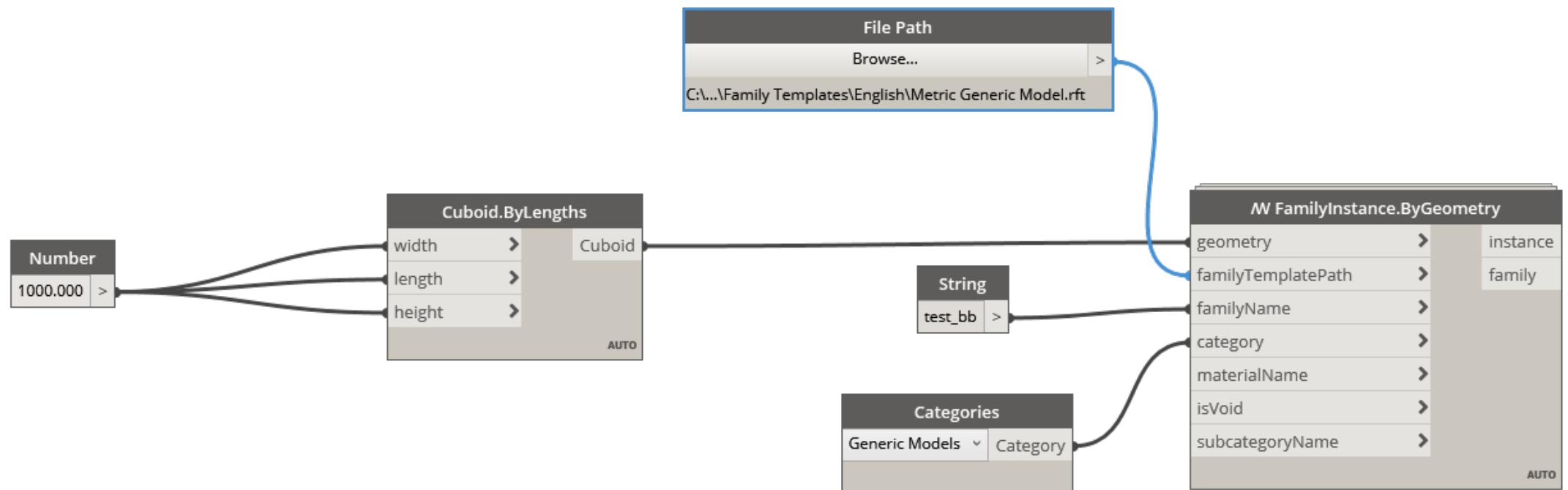
hello world



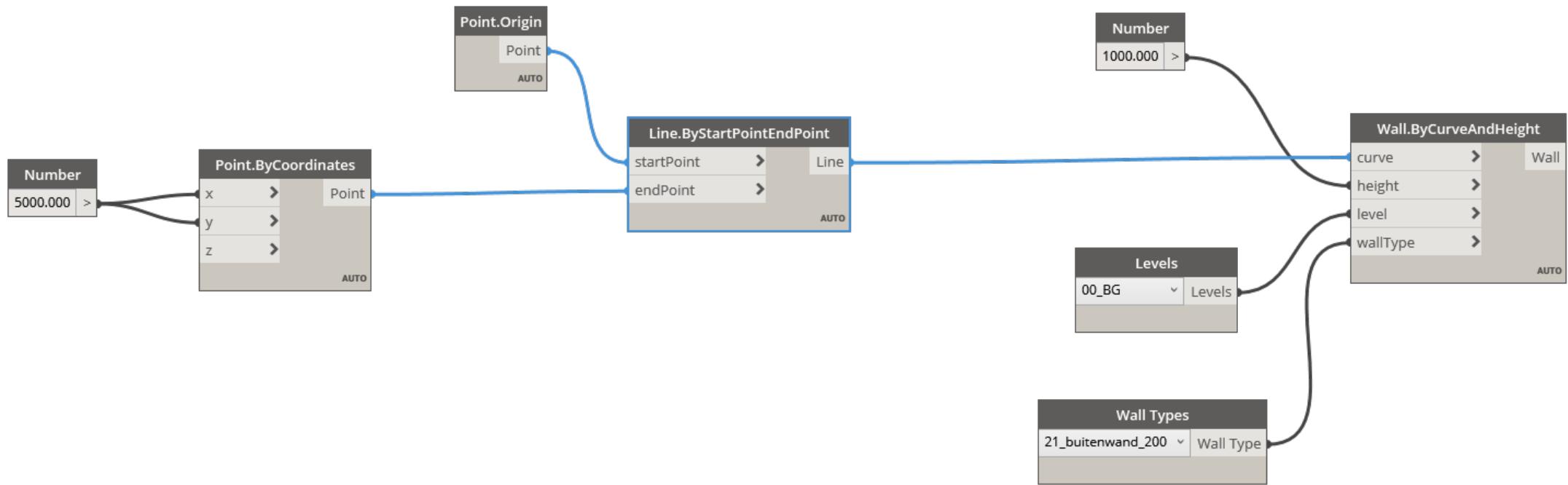
points



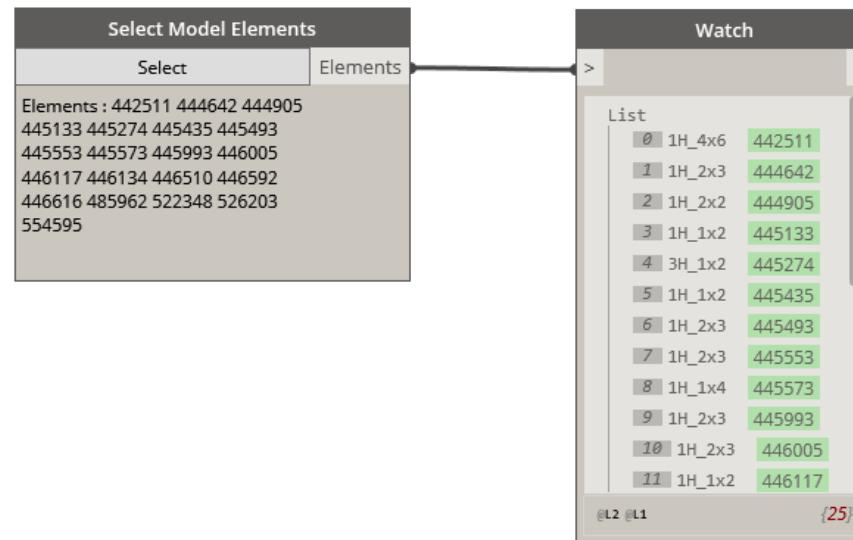
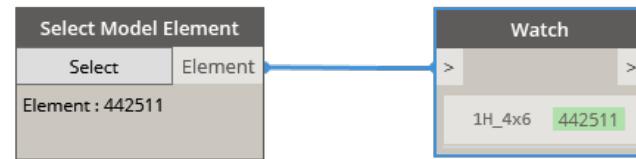
CubeToRevit



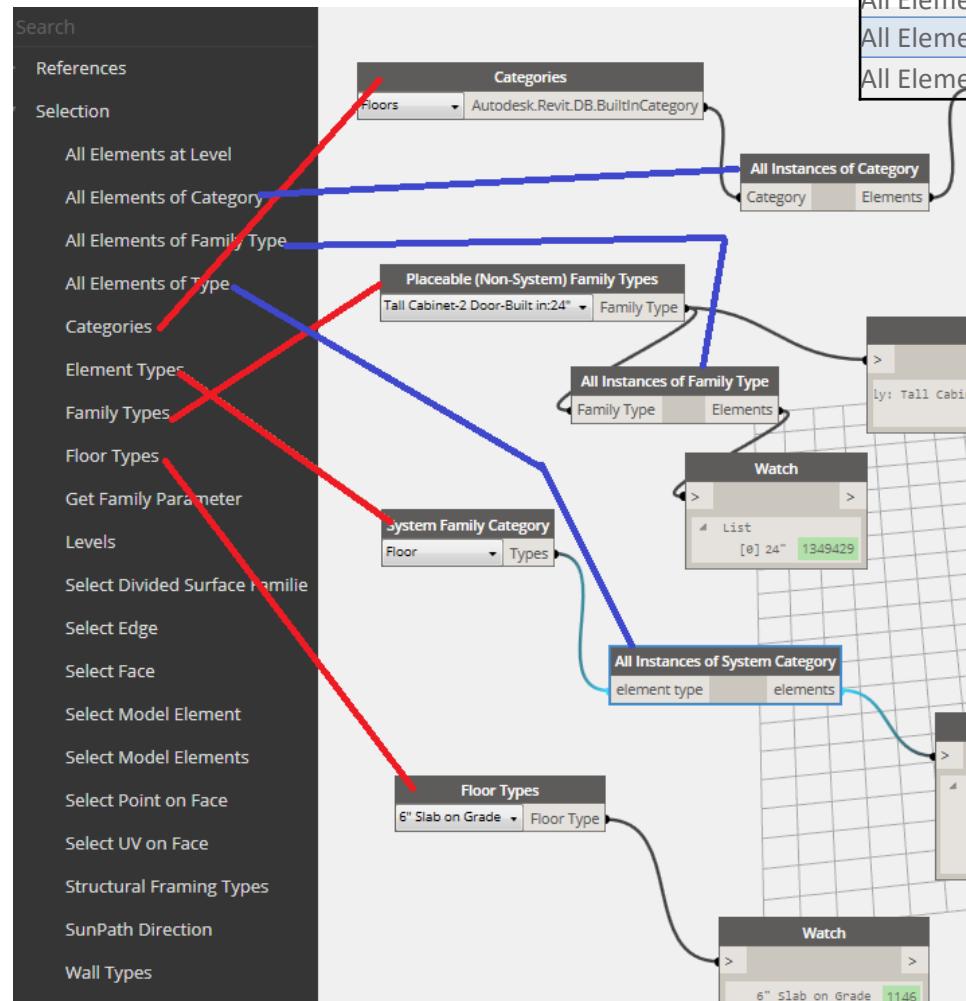
WallByCurve



make your selection...

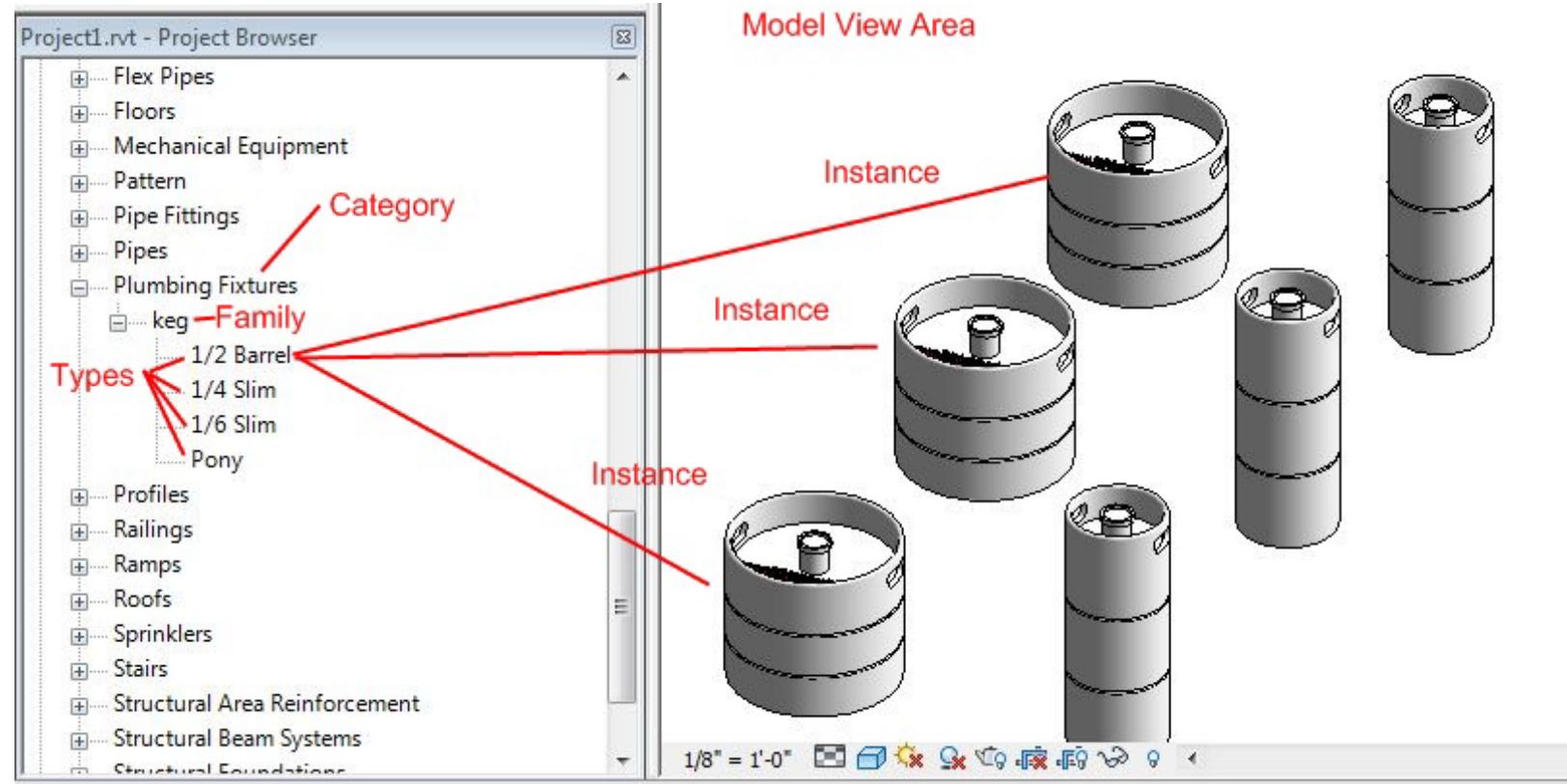


...from nodes

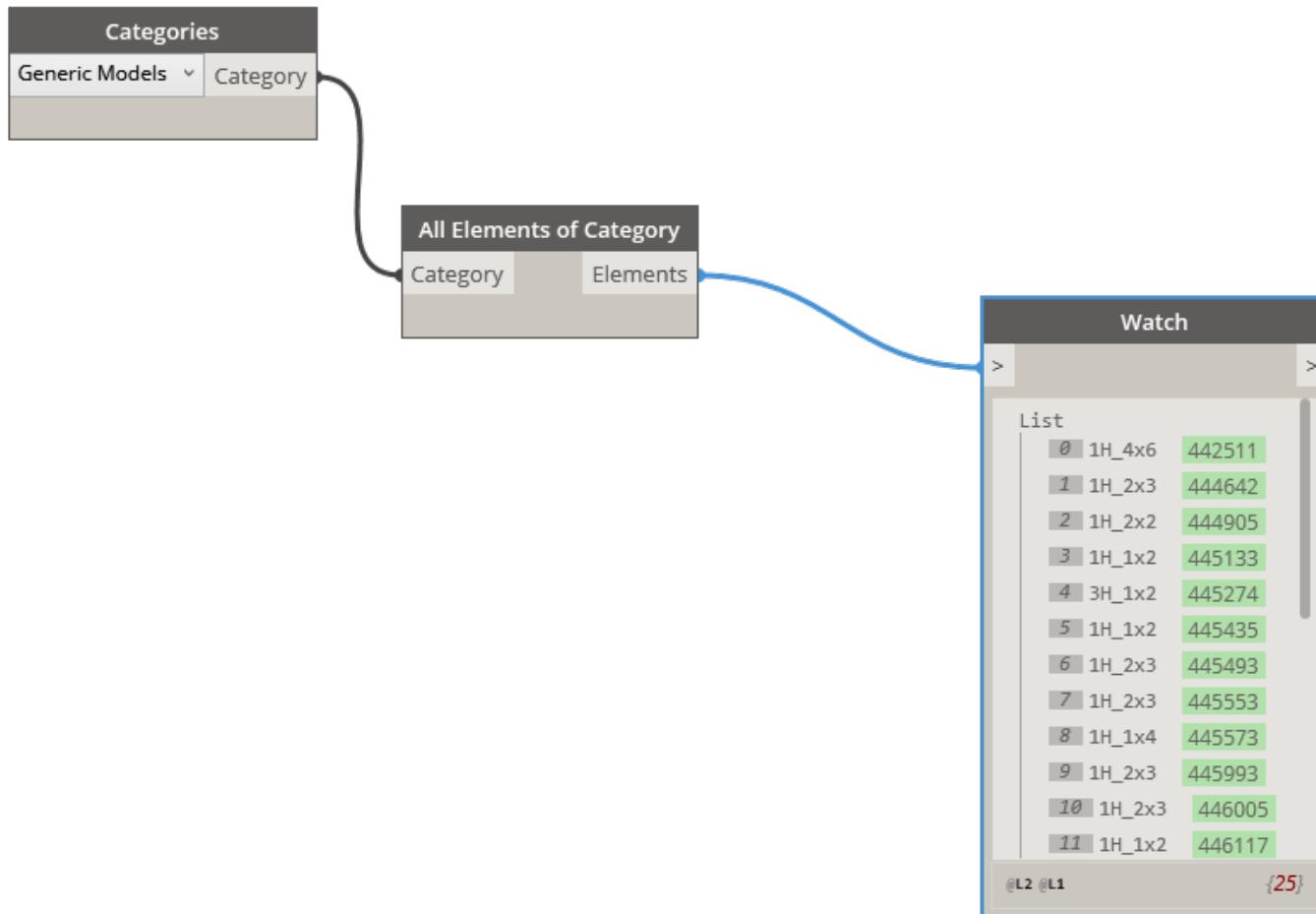


Current Node Name	What they Represent
Family Types	Placeable Family Types
Element Types	System Family Categories
All Elements of Family Type	All Instances of Family Type
All Elements of Type	All Instances of System Family Category
All Elements of Category	All Instances of Category

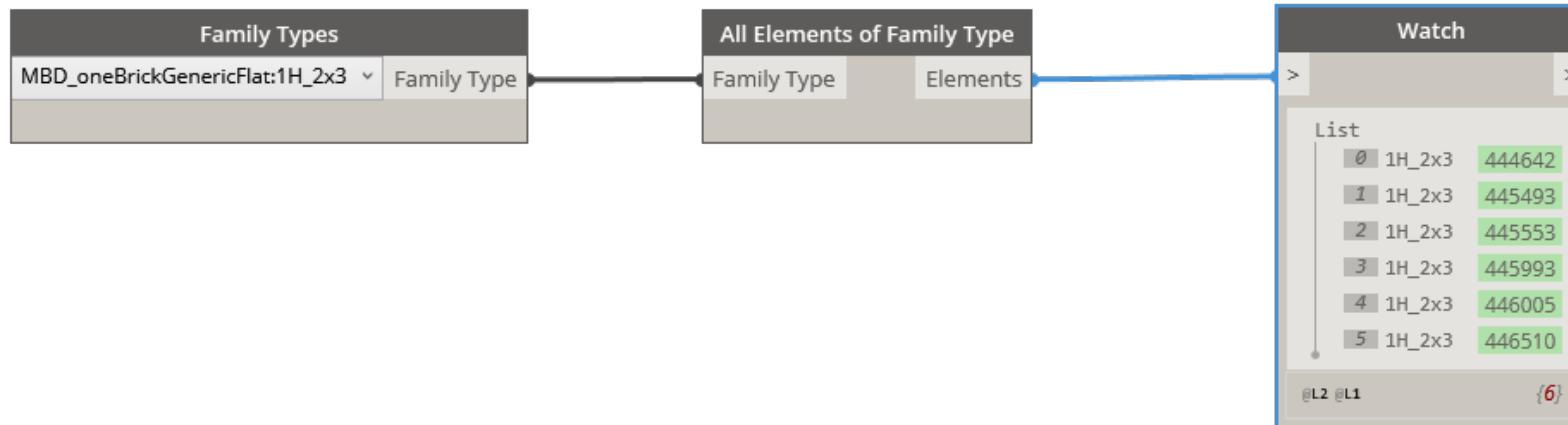
category, family, type, instance



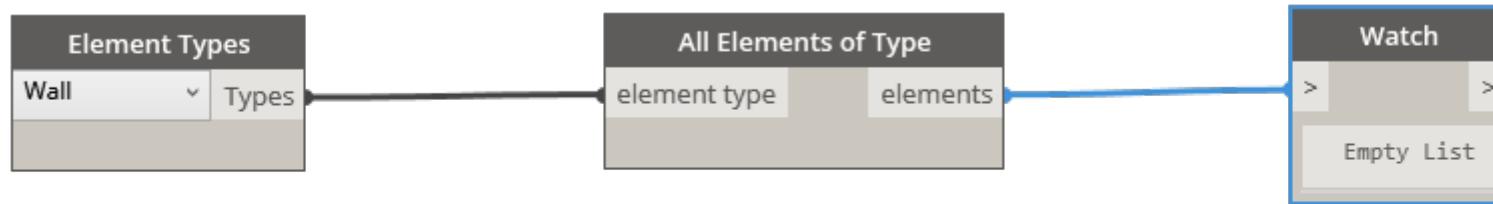
Categories



FamilyTypes

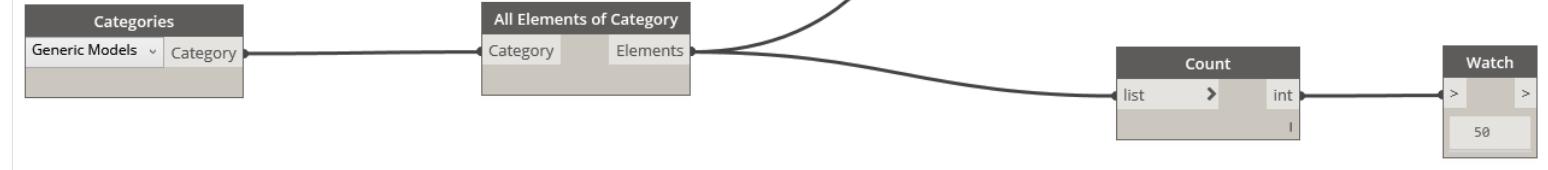


SystemFamilies

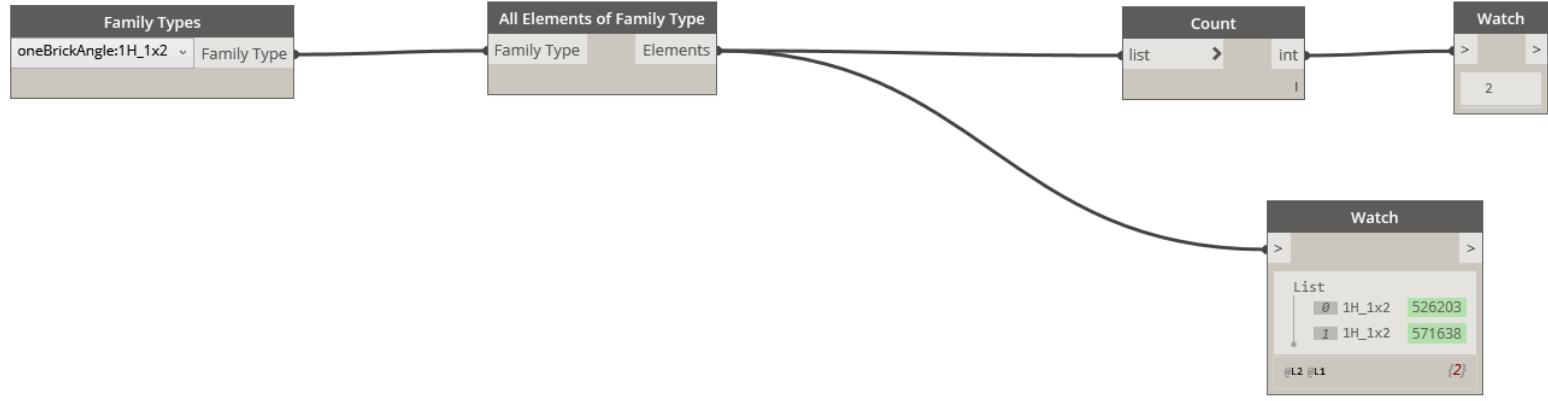


get type or instance

Get type:

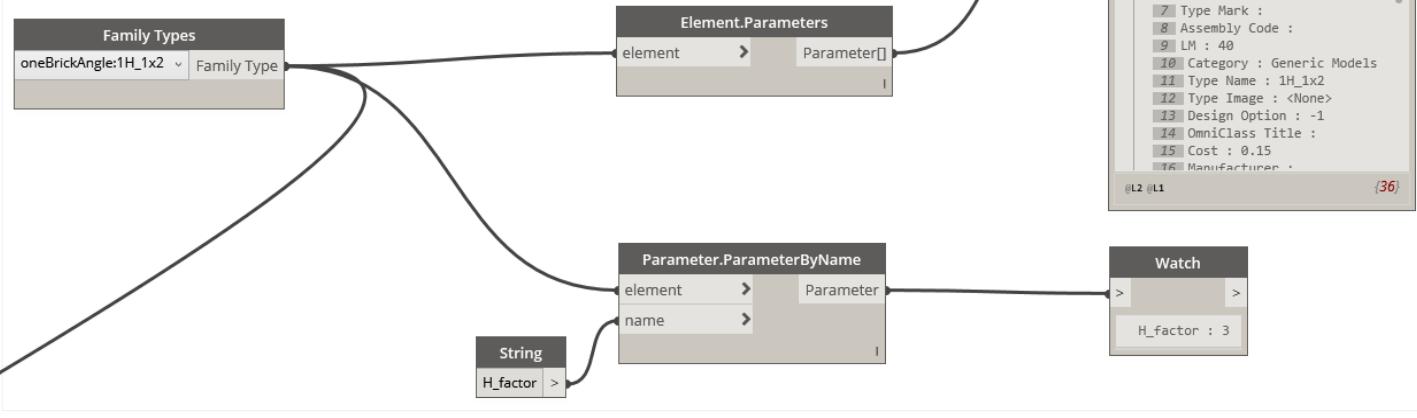


Get instance:

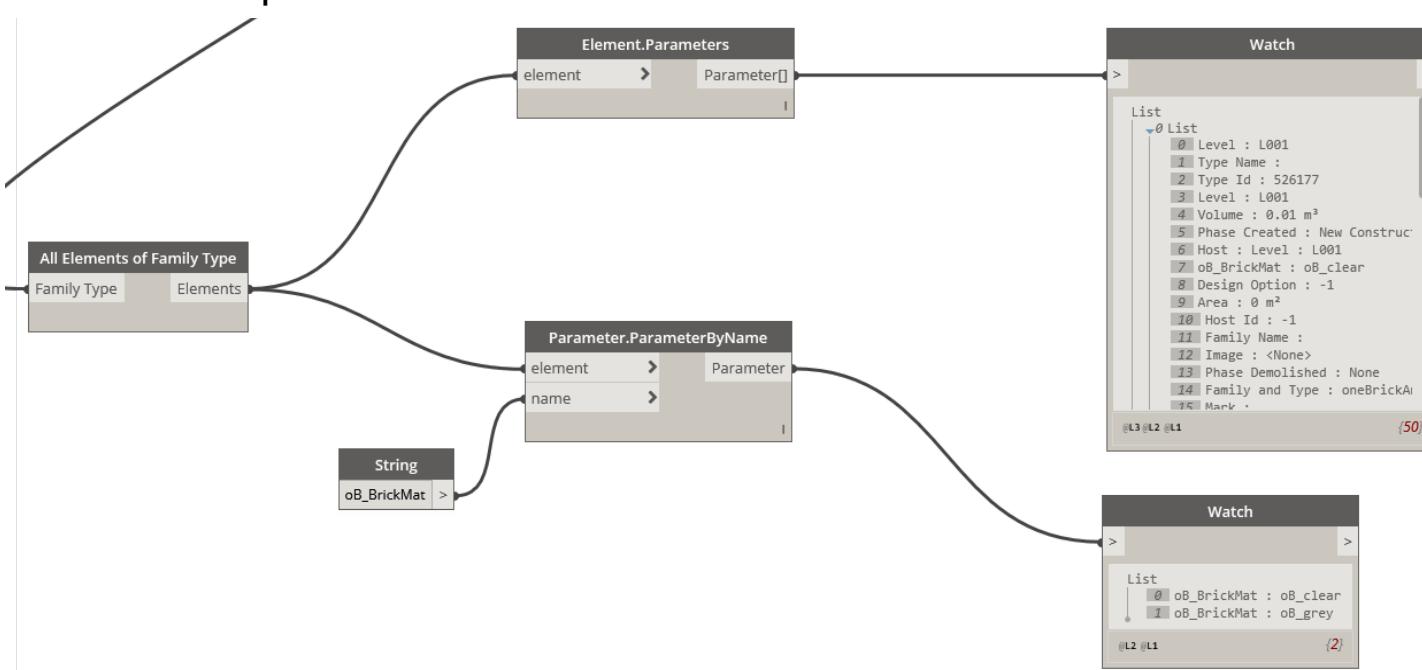


get type & instance parameters

Get type parameters:

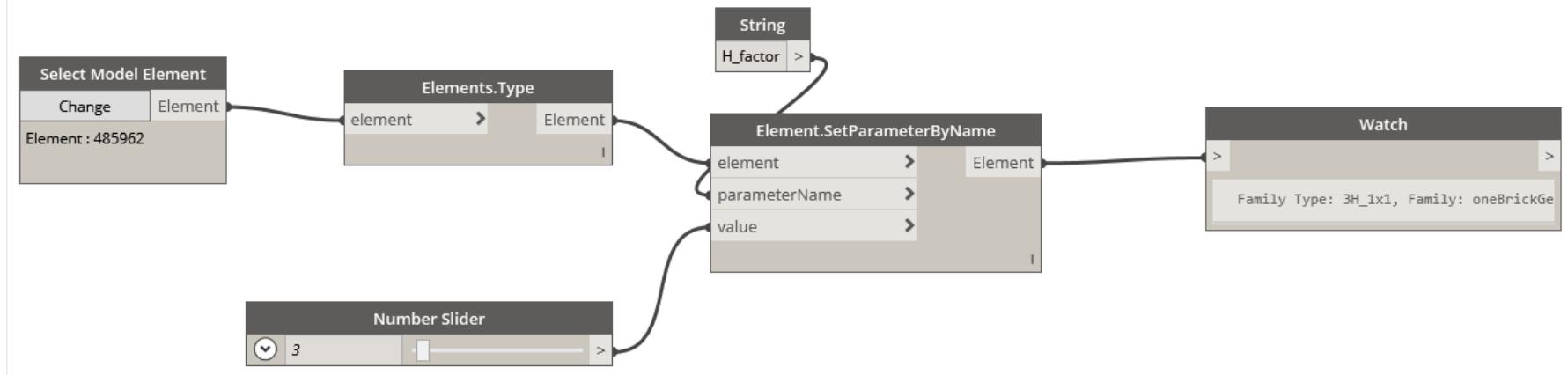


Get instance parameters:

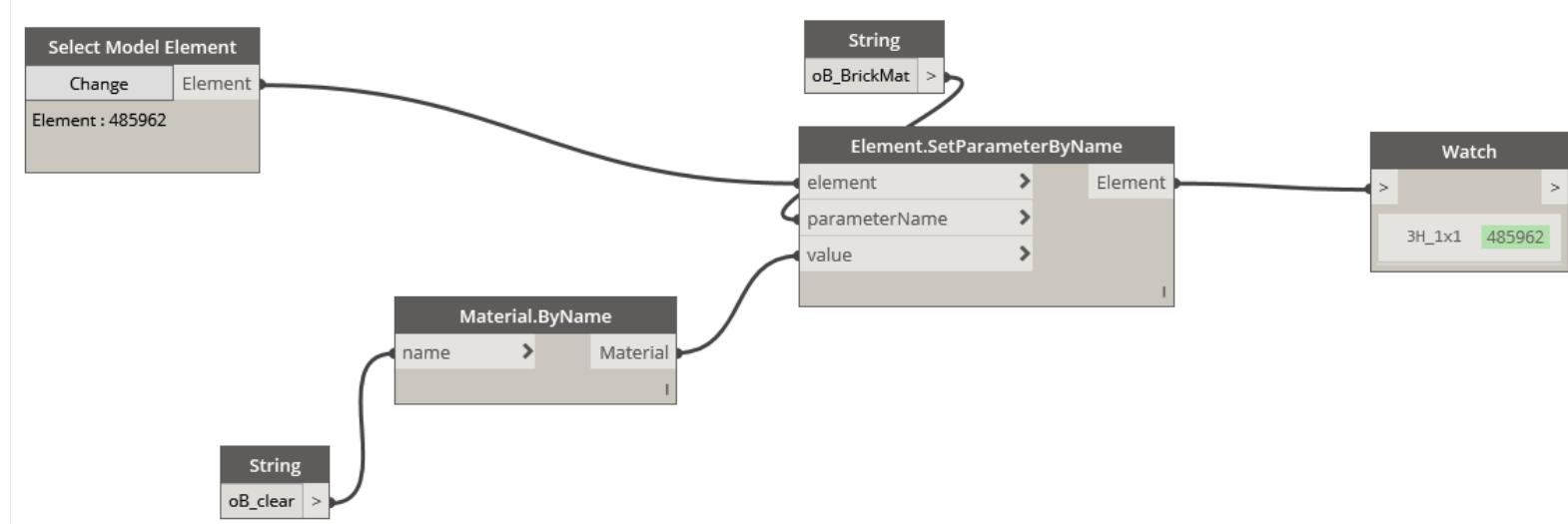


set instance parameters

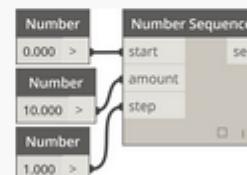
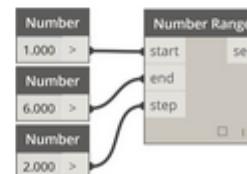
Set Type Parameter



Set Instance Parameter



code block

Numbers	Number 3.140 >	Code Block 3.14; >
Strings	String Less is more. >	Code Block "Less is more."; >
Sequences	 Number 0.000 > Number 10.000 > Number 1.000 > Number Sequence start amount step seq	Code Block 0..#10..1; >
Ranges	 Number 1.000 > Number 6.000 > Number 2.000 > Number Range start end step seq	Code Block 0..6..2; >

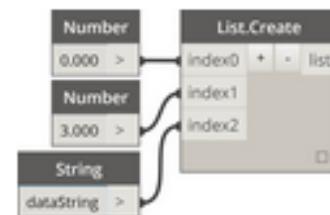
code block

Get Item at Index



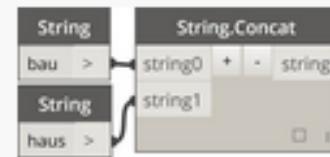
Code Block
myList myList[1]; >

Create List



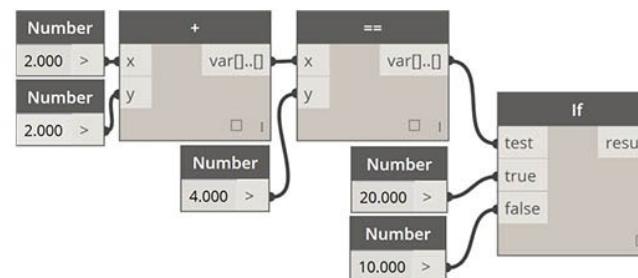
Code Block
{0,3,"dataString"}; >

Concatenate Strings



Code Block
"bau"+"haus"; >

Conditional Statements



Code Block
2+2==4?20:10; >

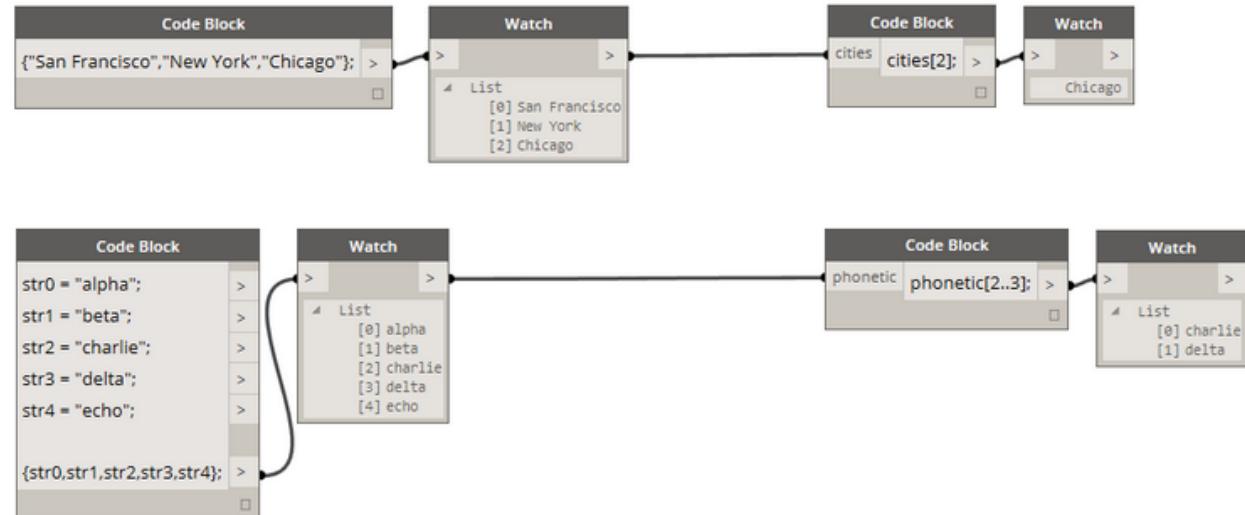
lists

Make lists and get items from a list

Make lists with braces (a.k.a. "curly brackets"). Get items from a list with brackets (a.k.a. "square brackets").

Make lists with braces.

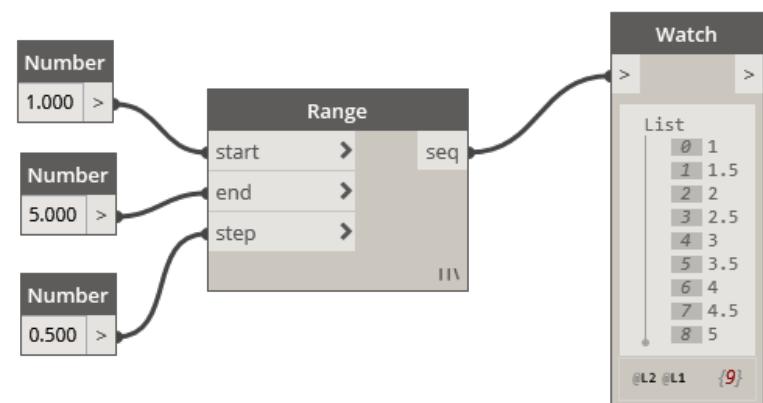
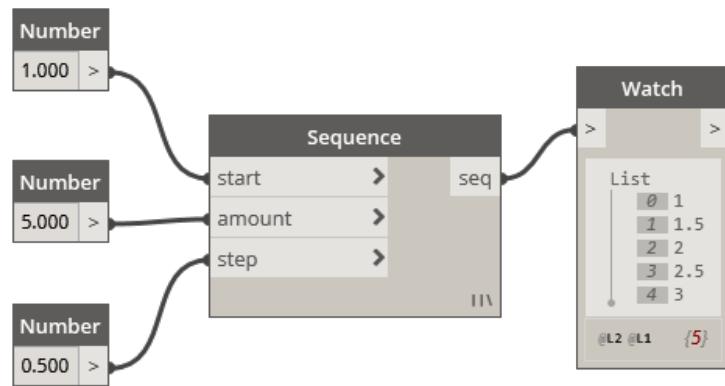
Get items from a list with brackets.



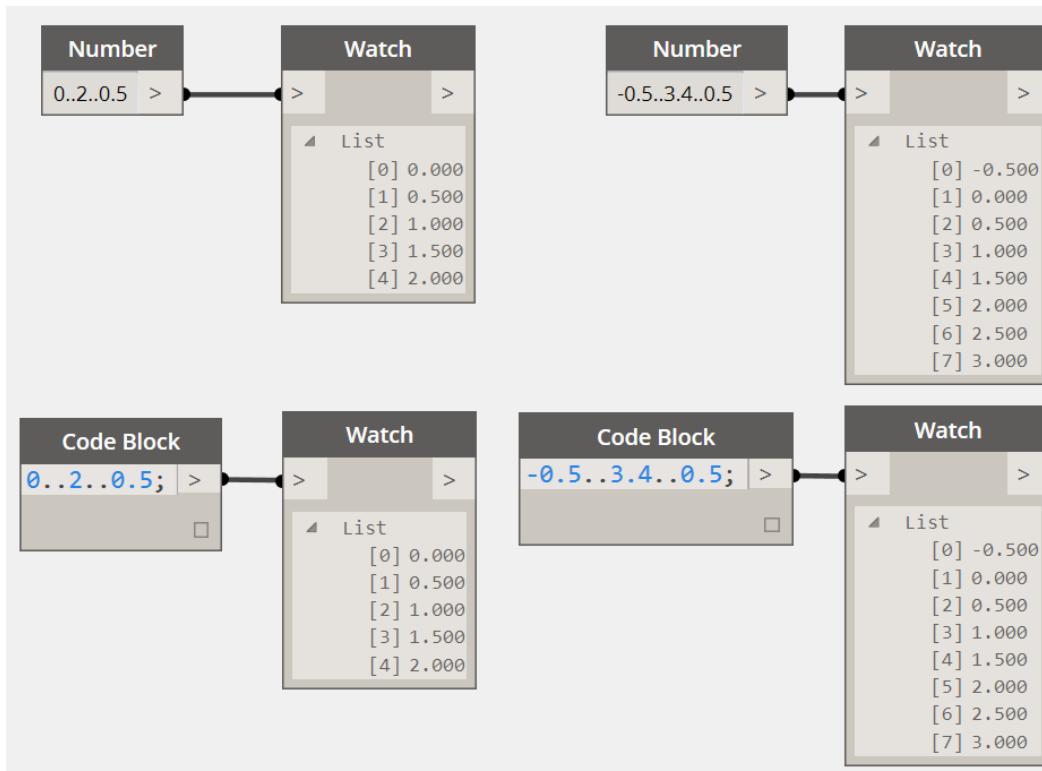
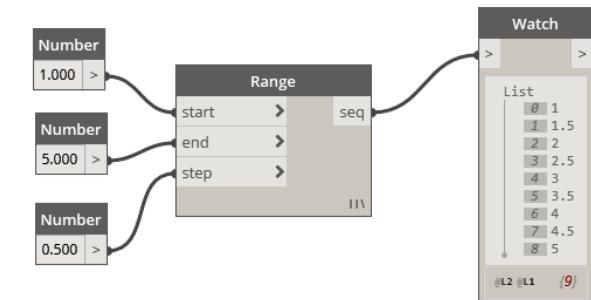
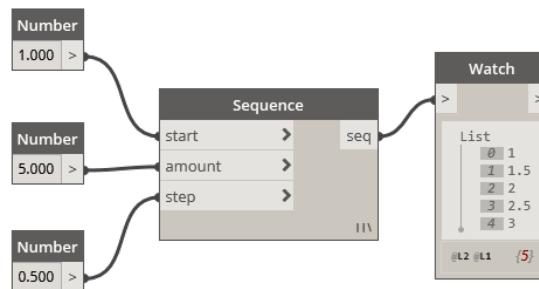
Working with nested lists is just a variation on the theme.



lists...



lists...



lists?

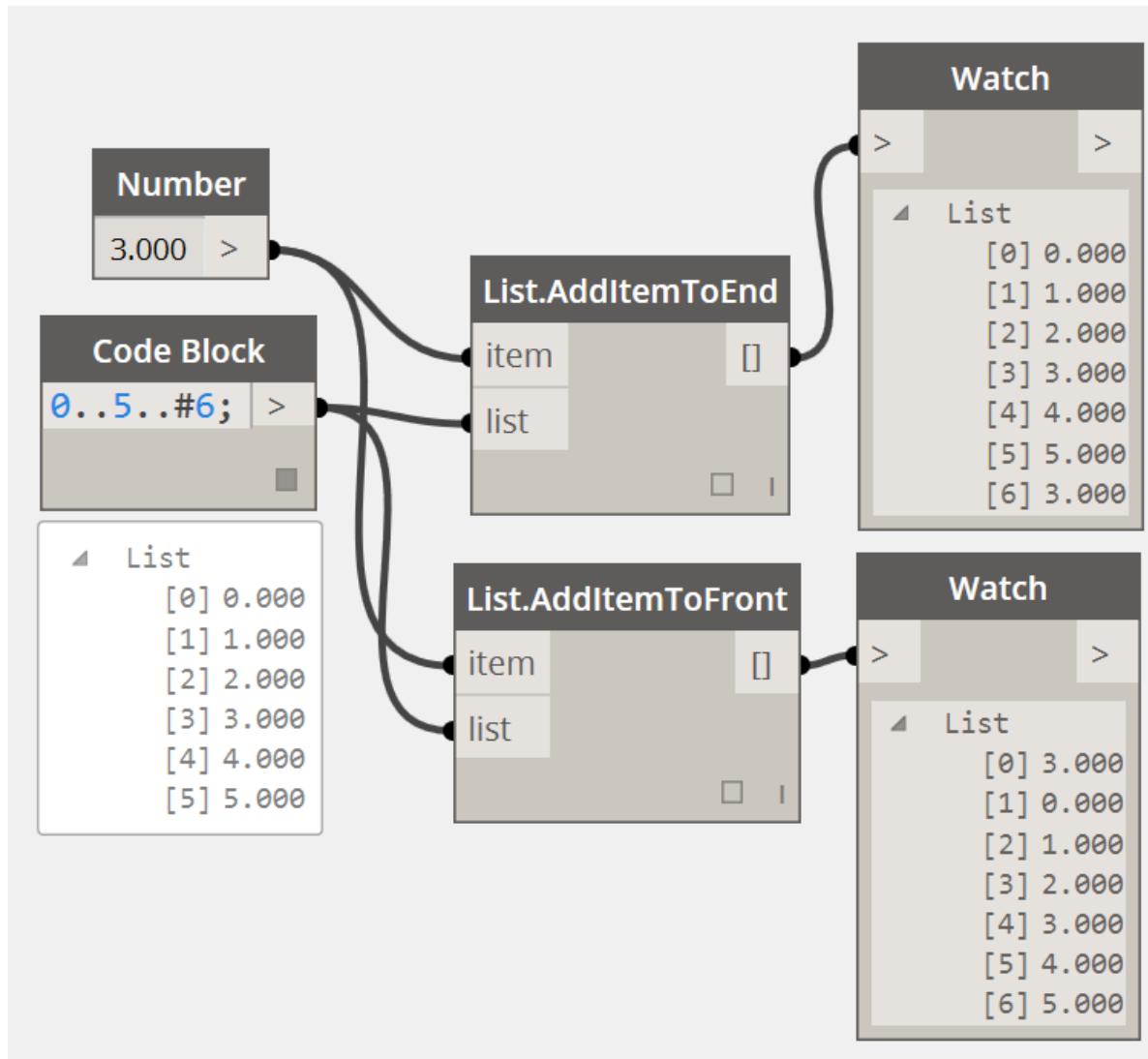
important?

**list management
is the foundation of your
coding future...**

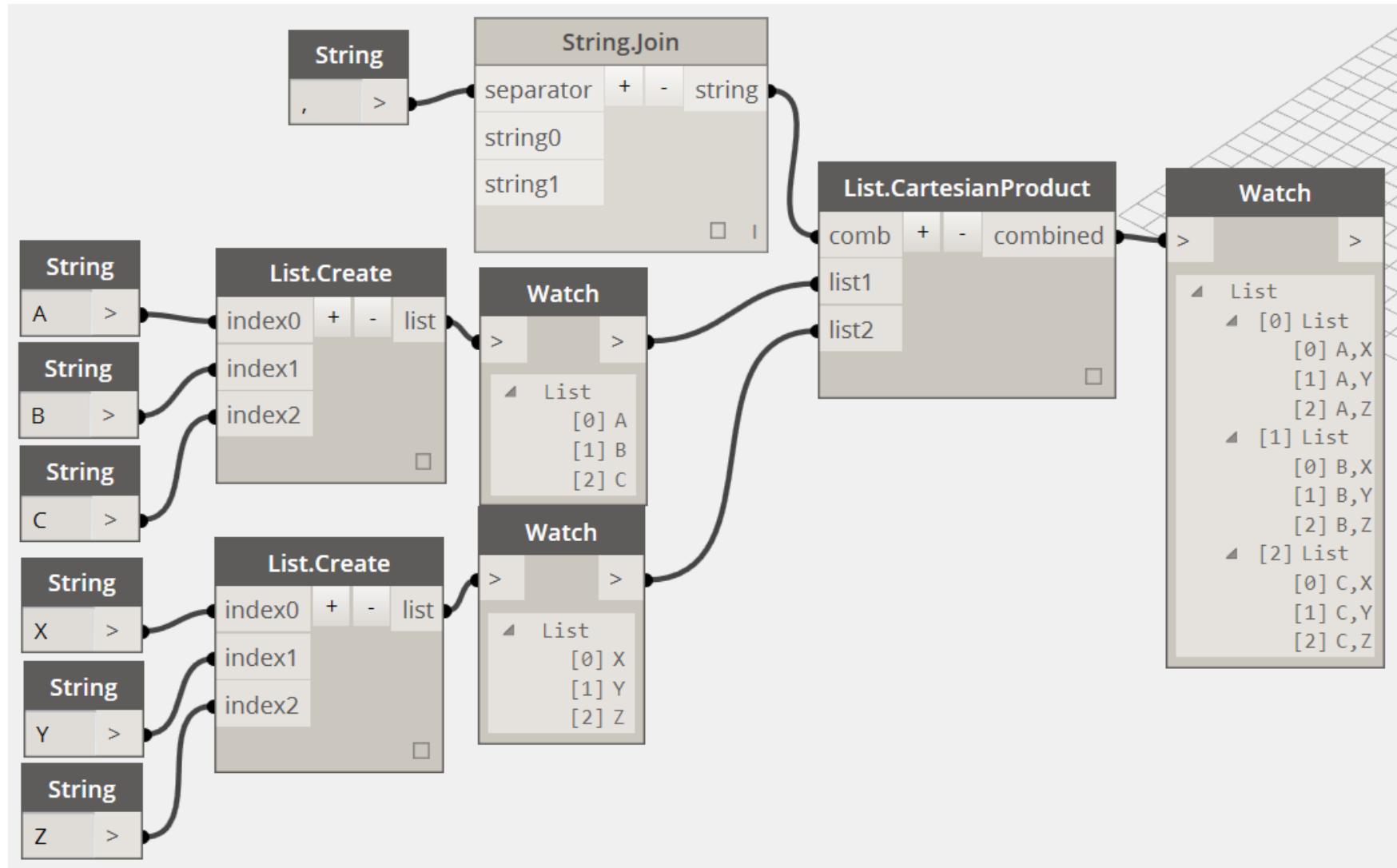
but step by step...

**one list operation per day
keeps the doctor away**

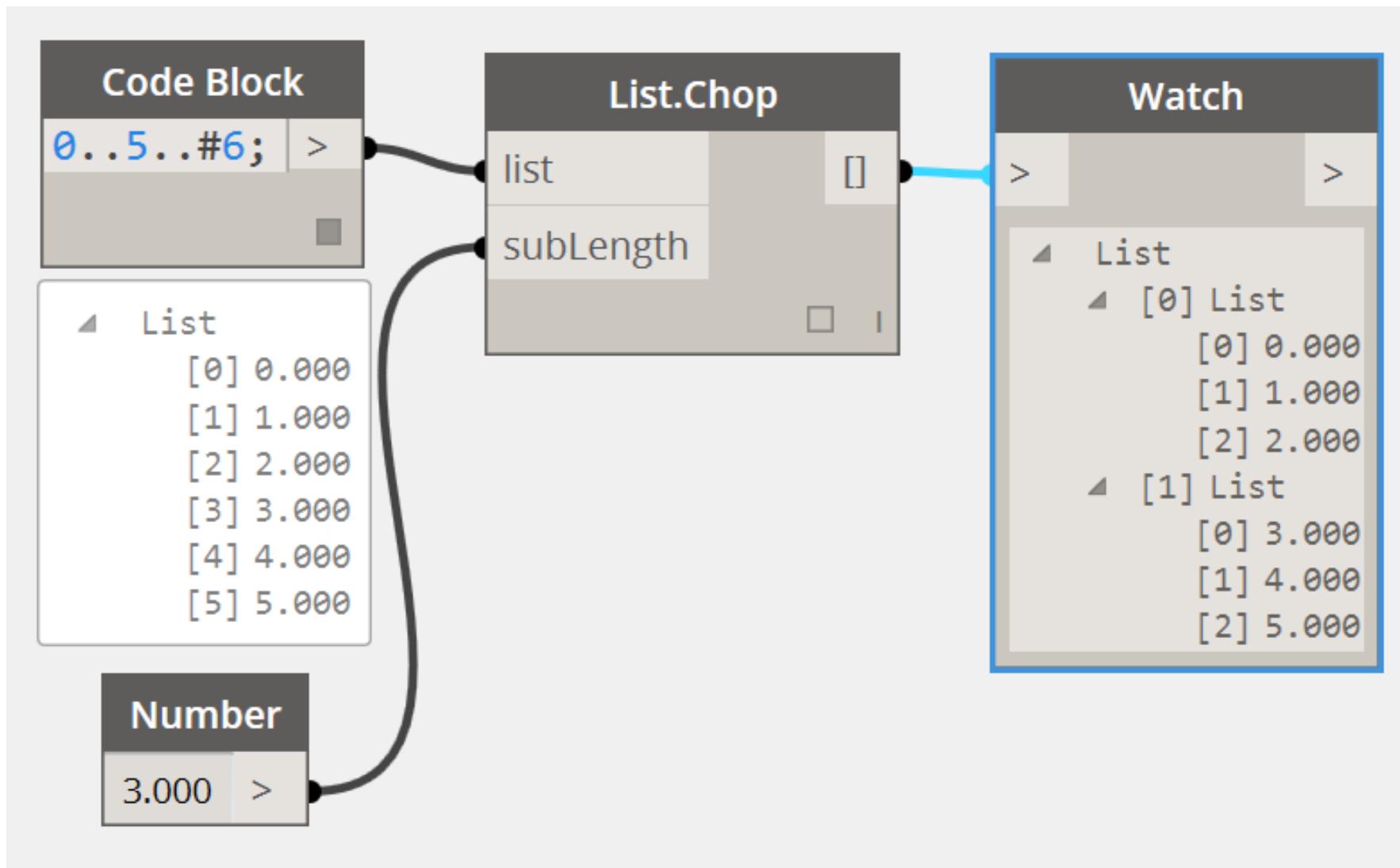
add item



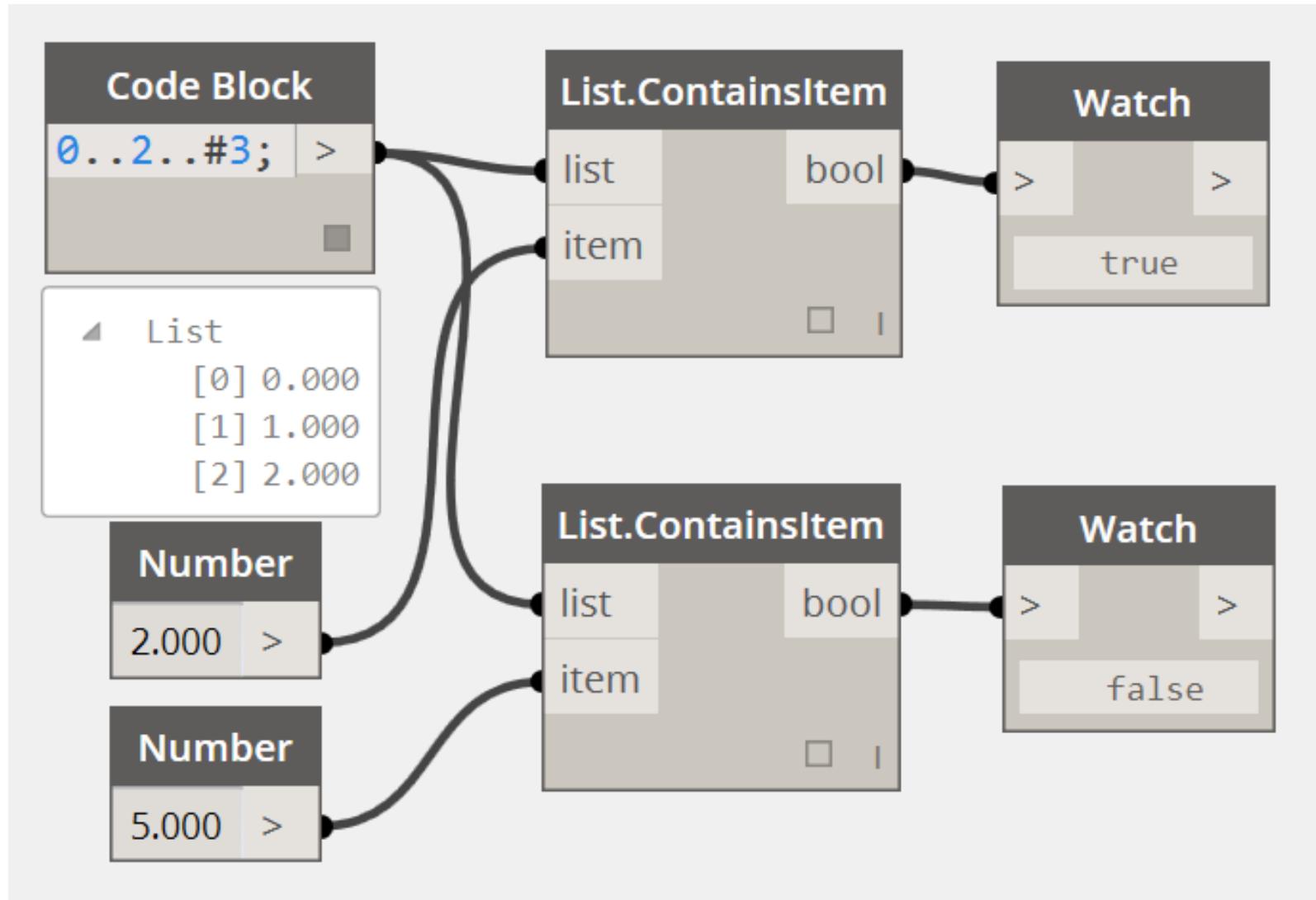
cartesian product



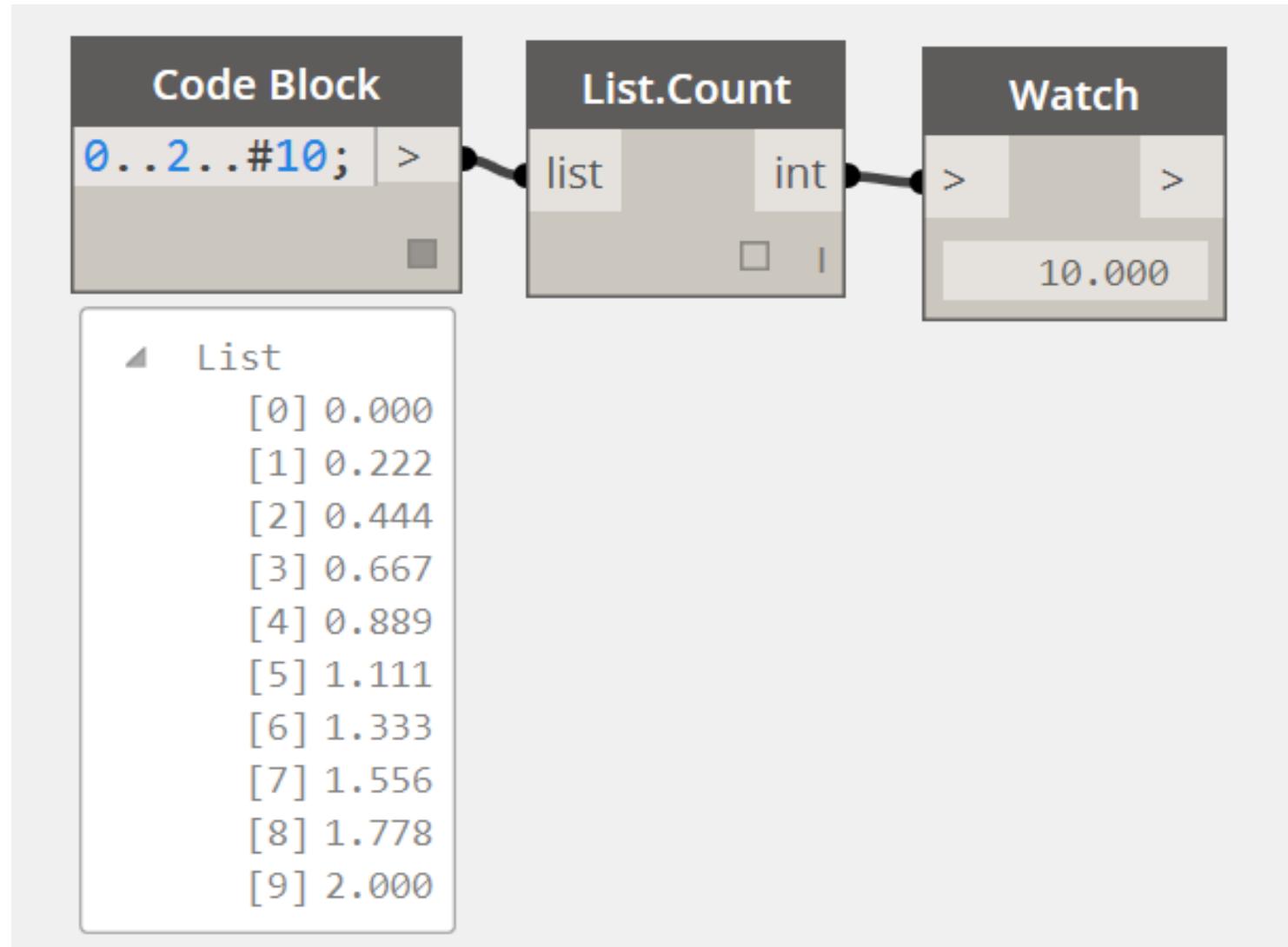
chop



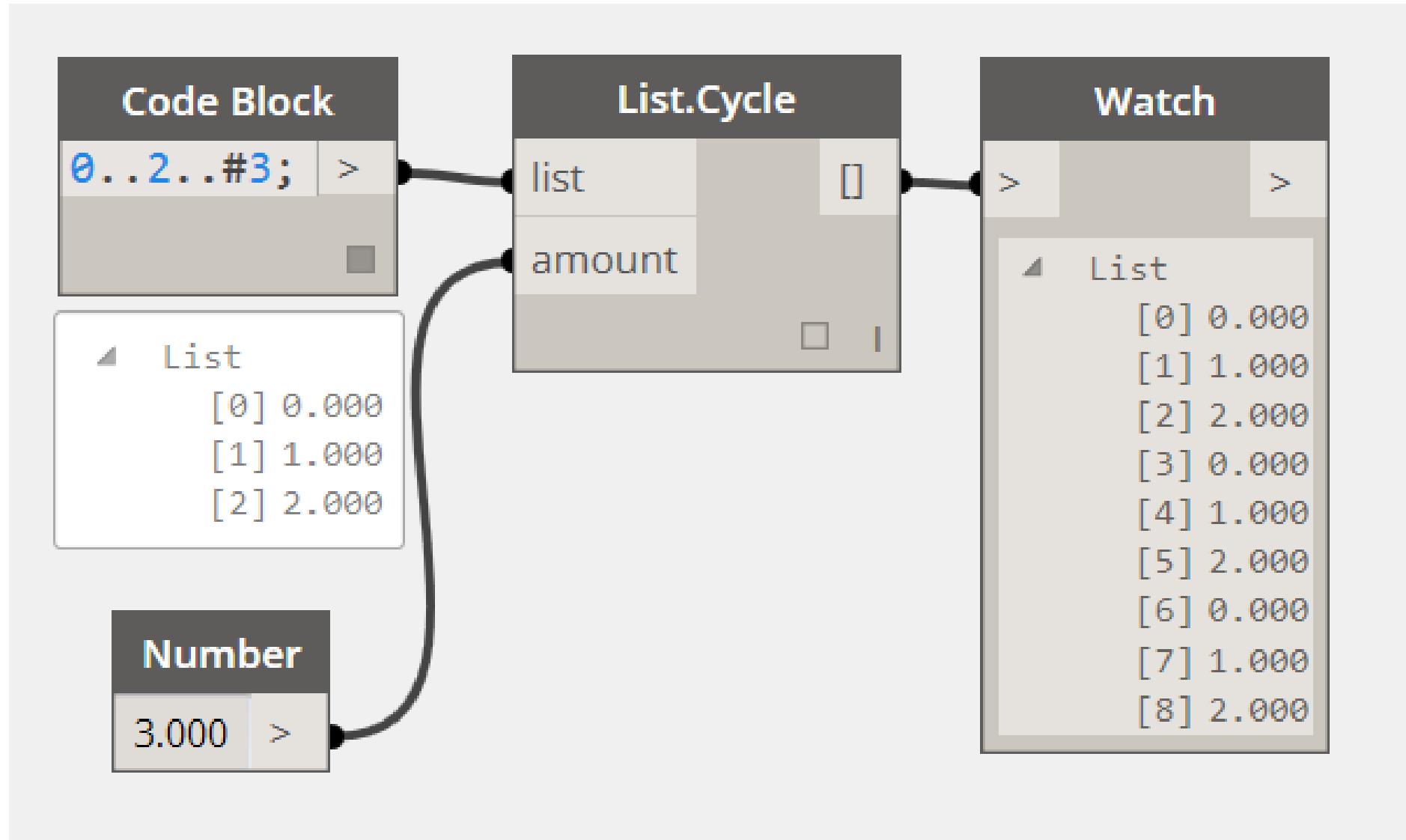
contain items



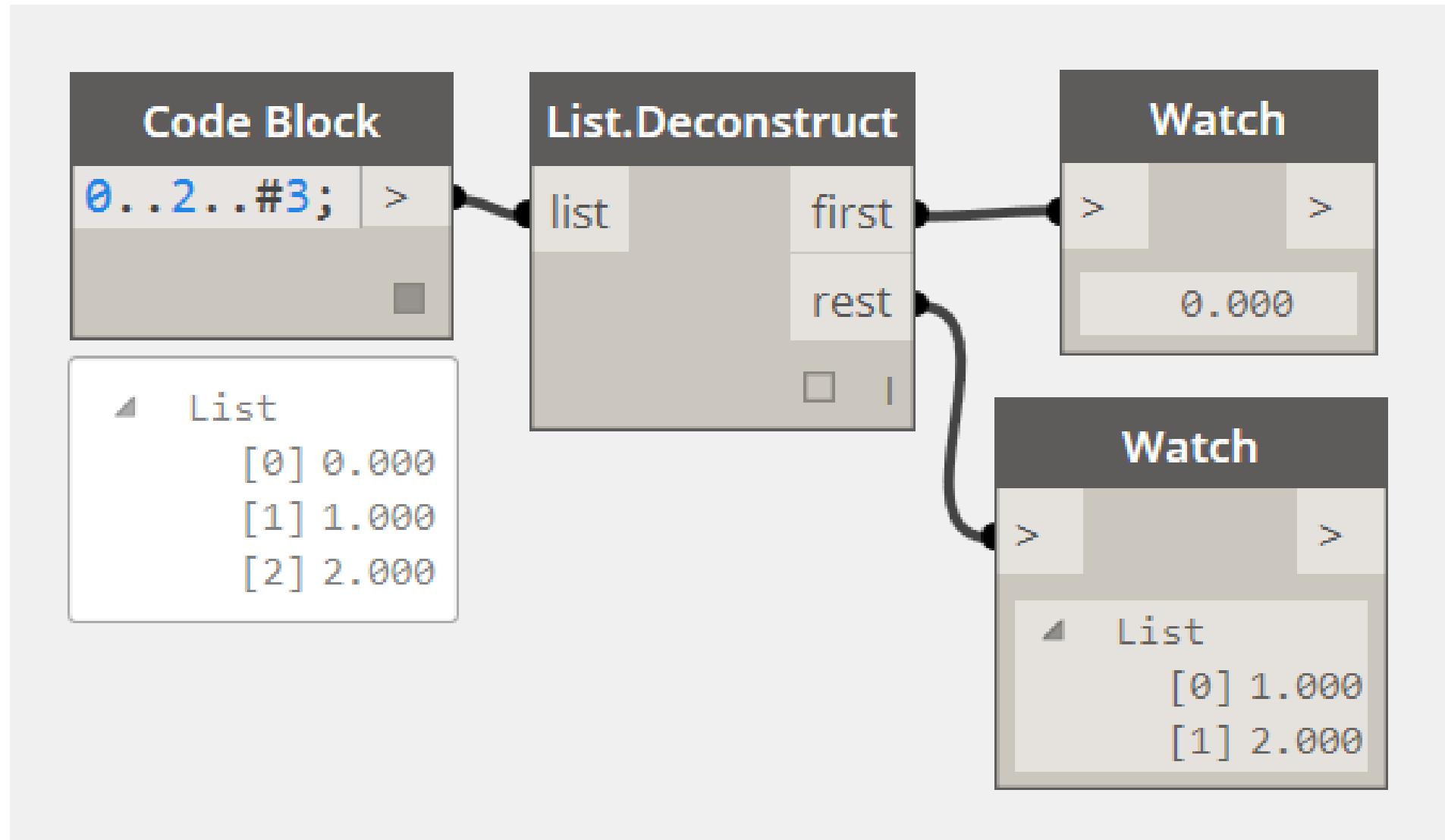
count



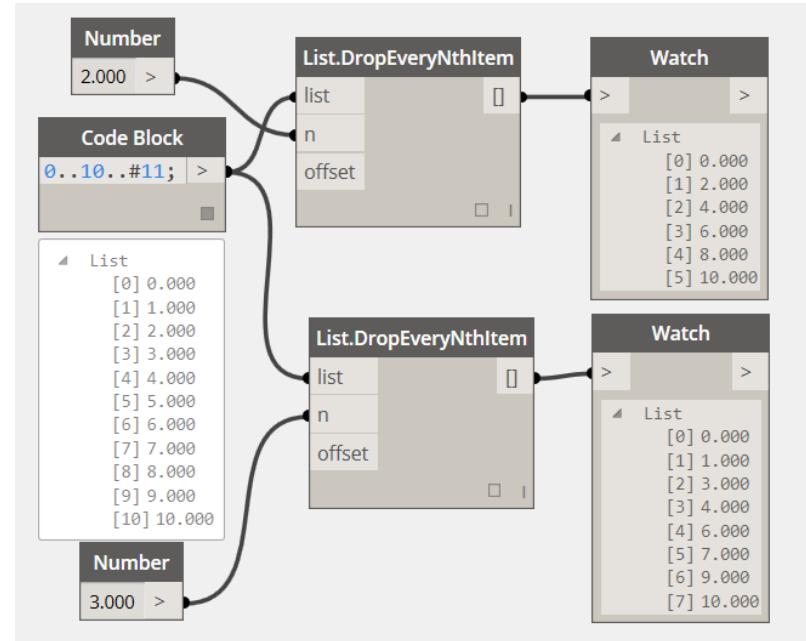
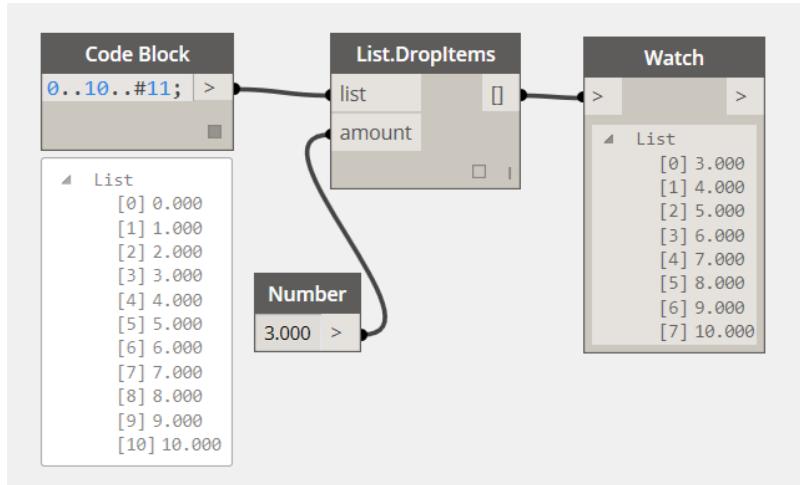
cycle



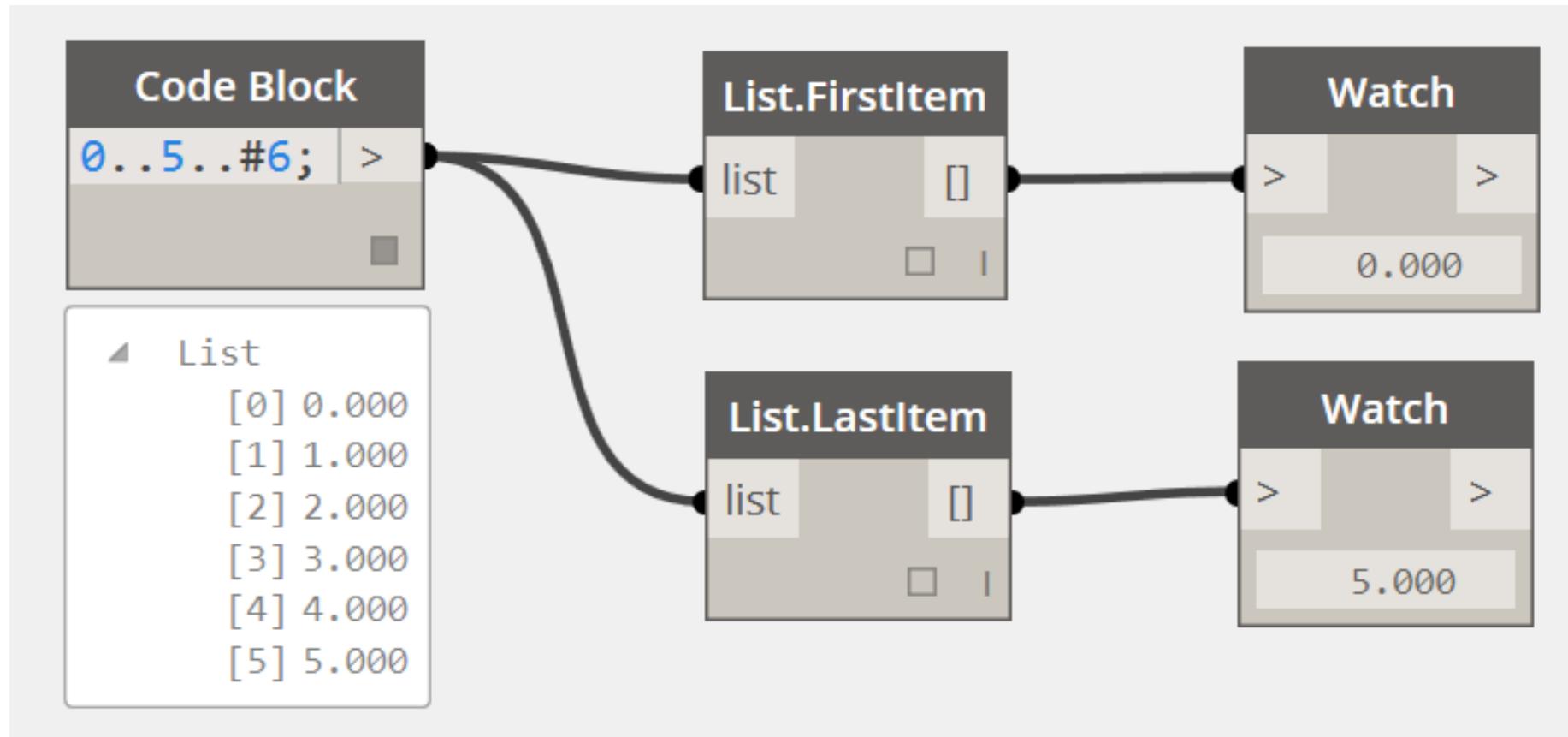
deconstruct



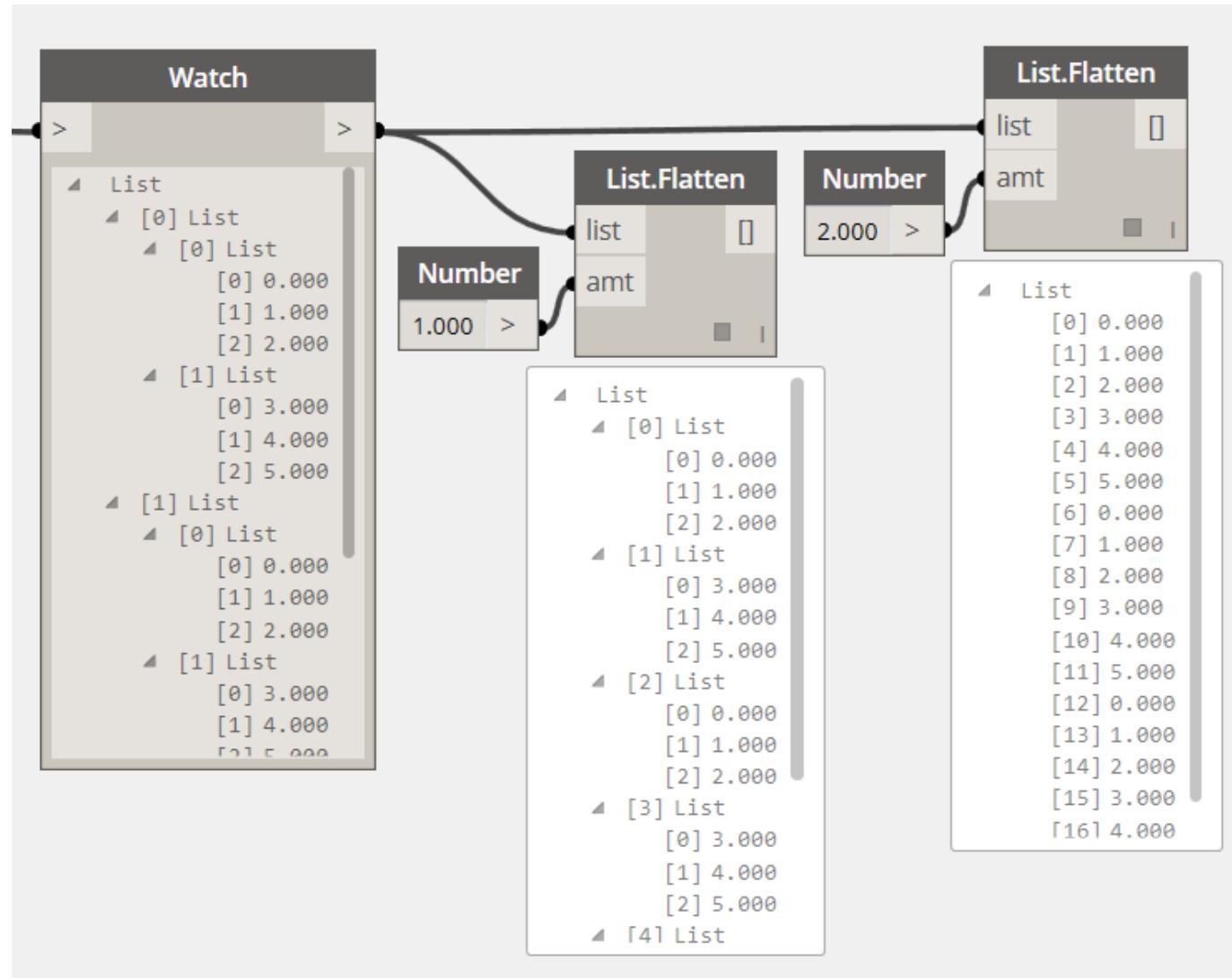
drop



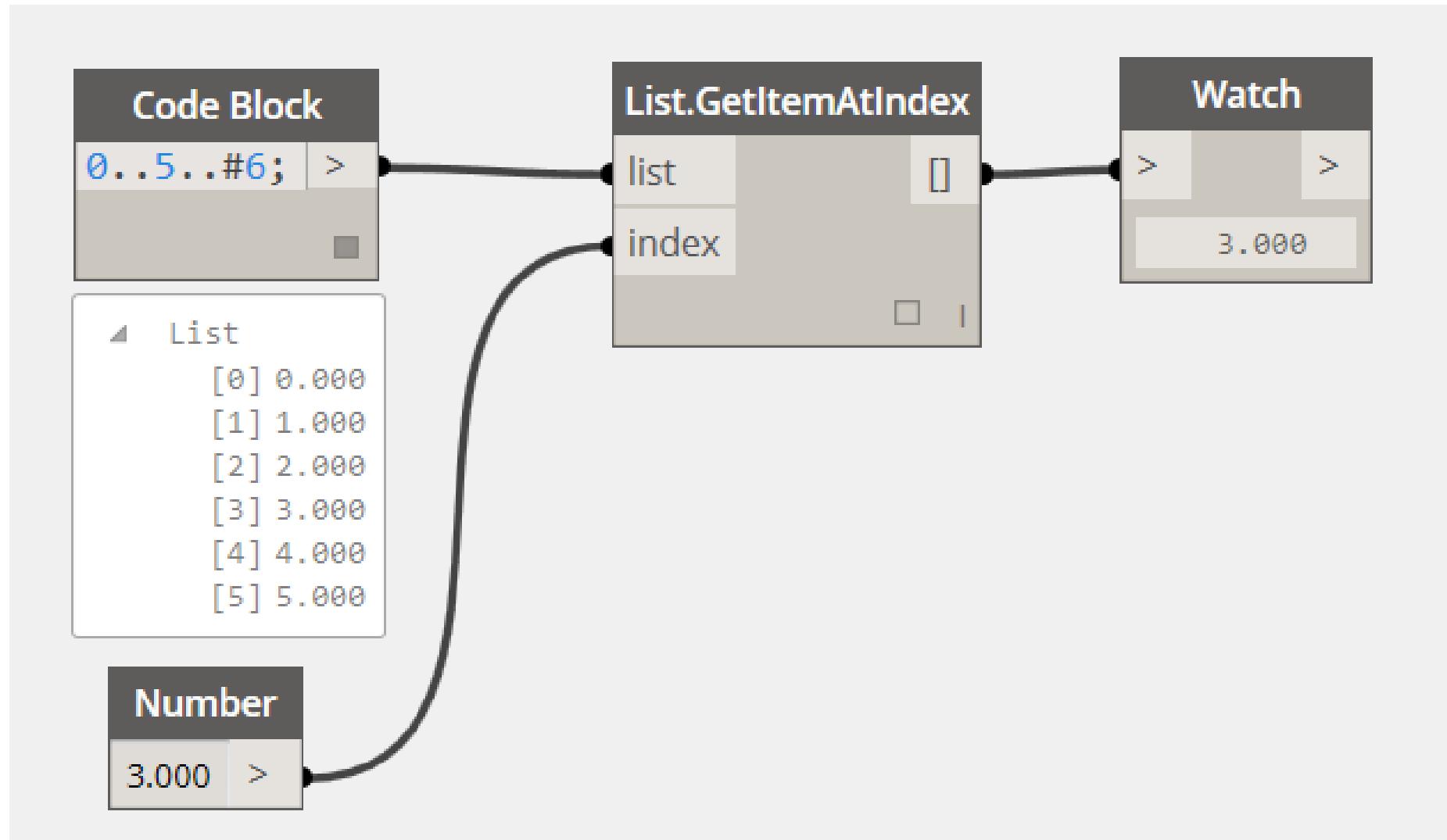
first/last



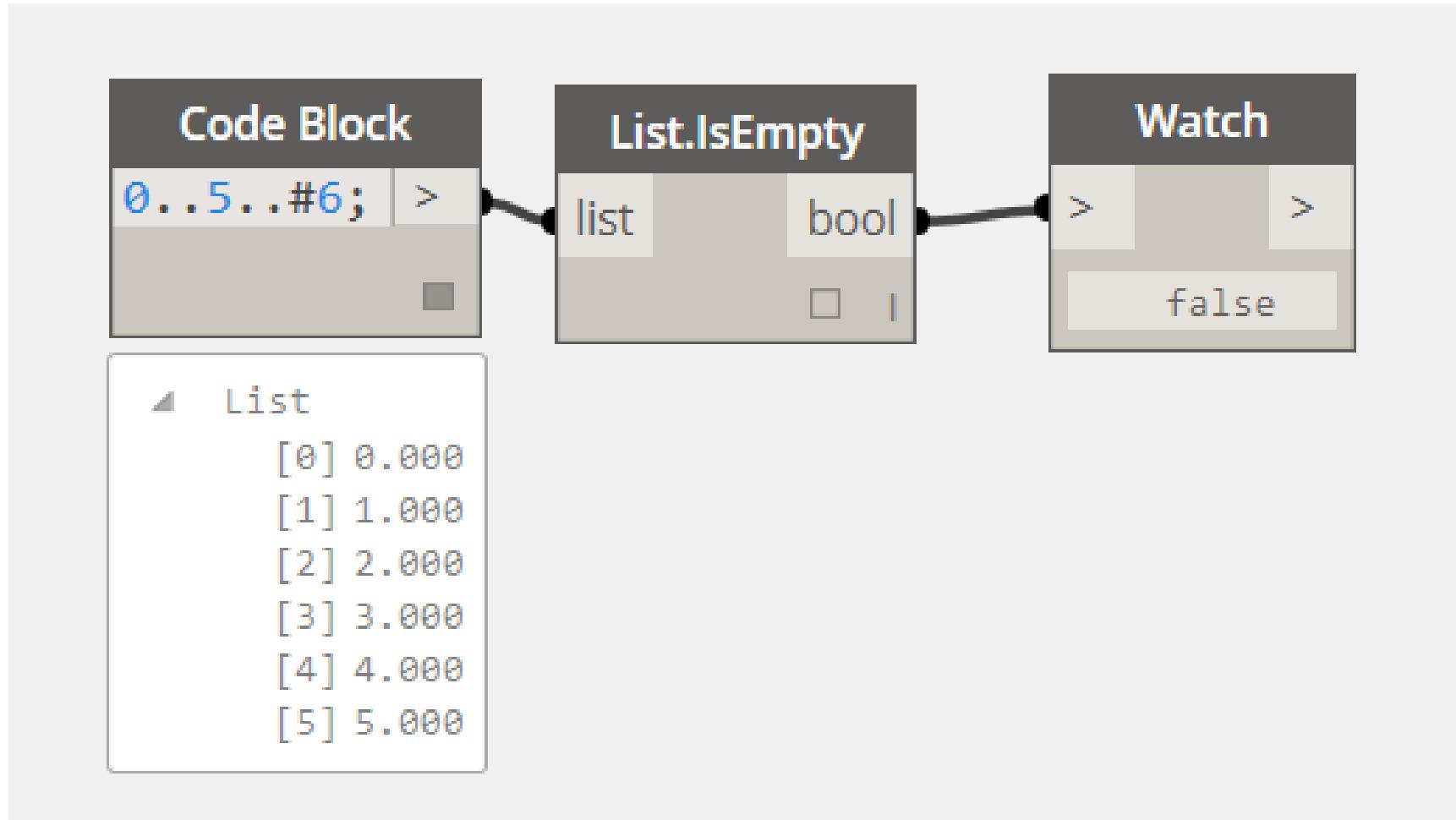
flatten



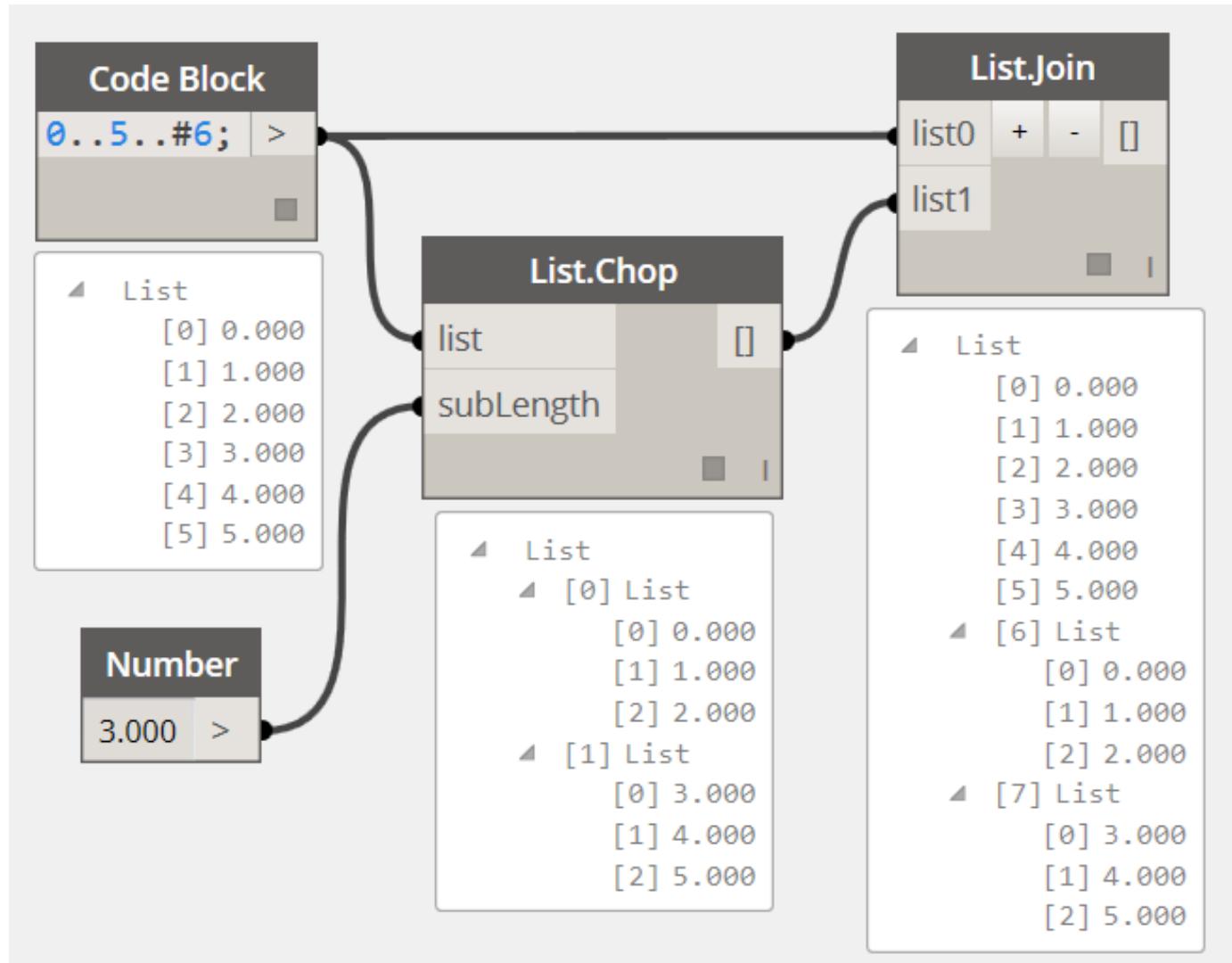
get @ index



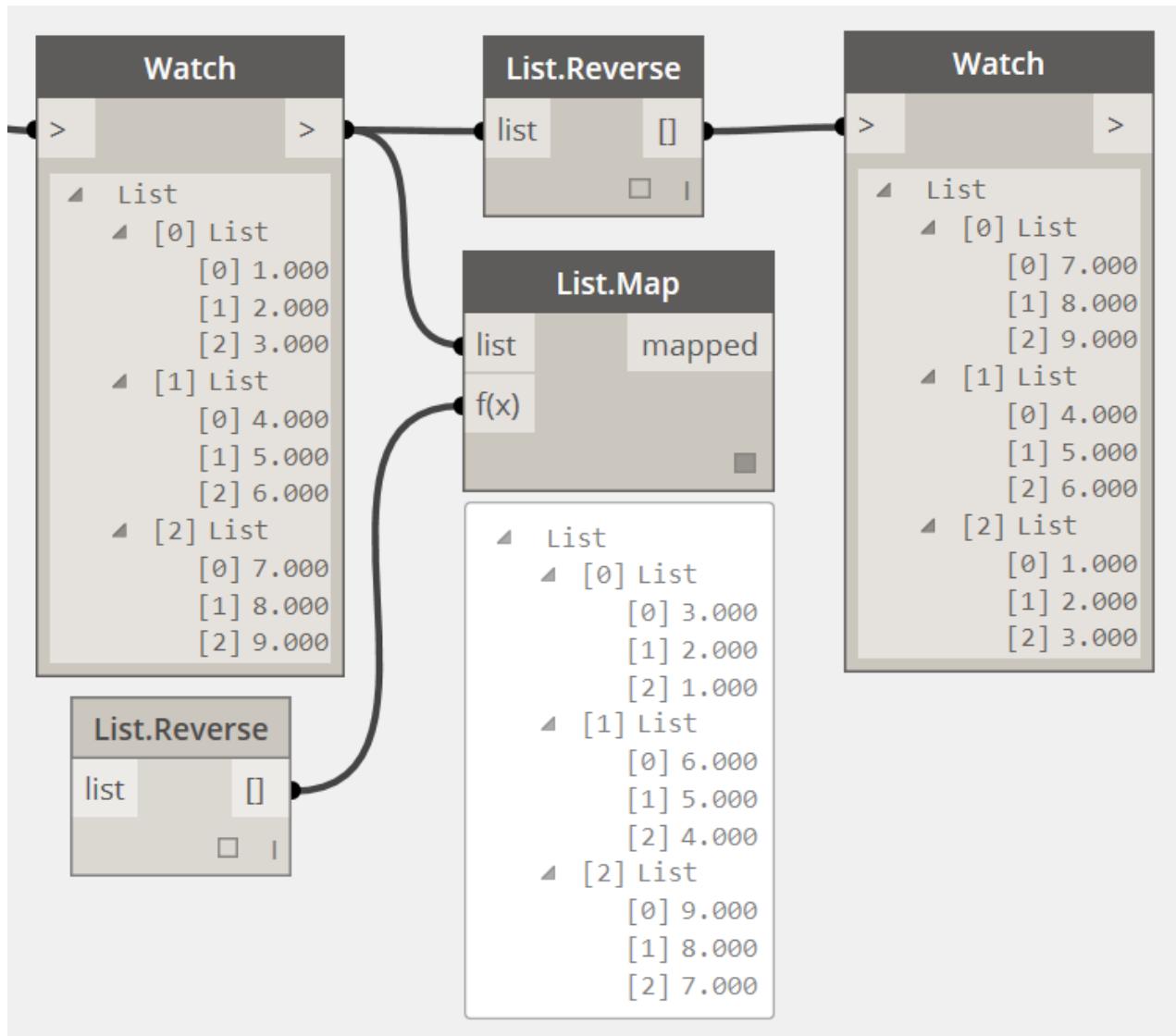
is empty



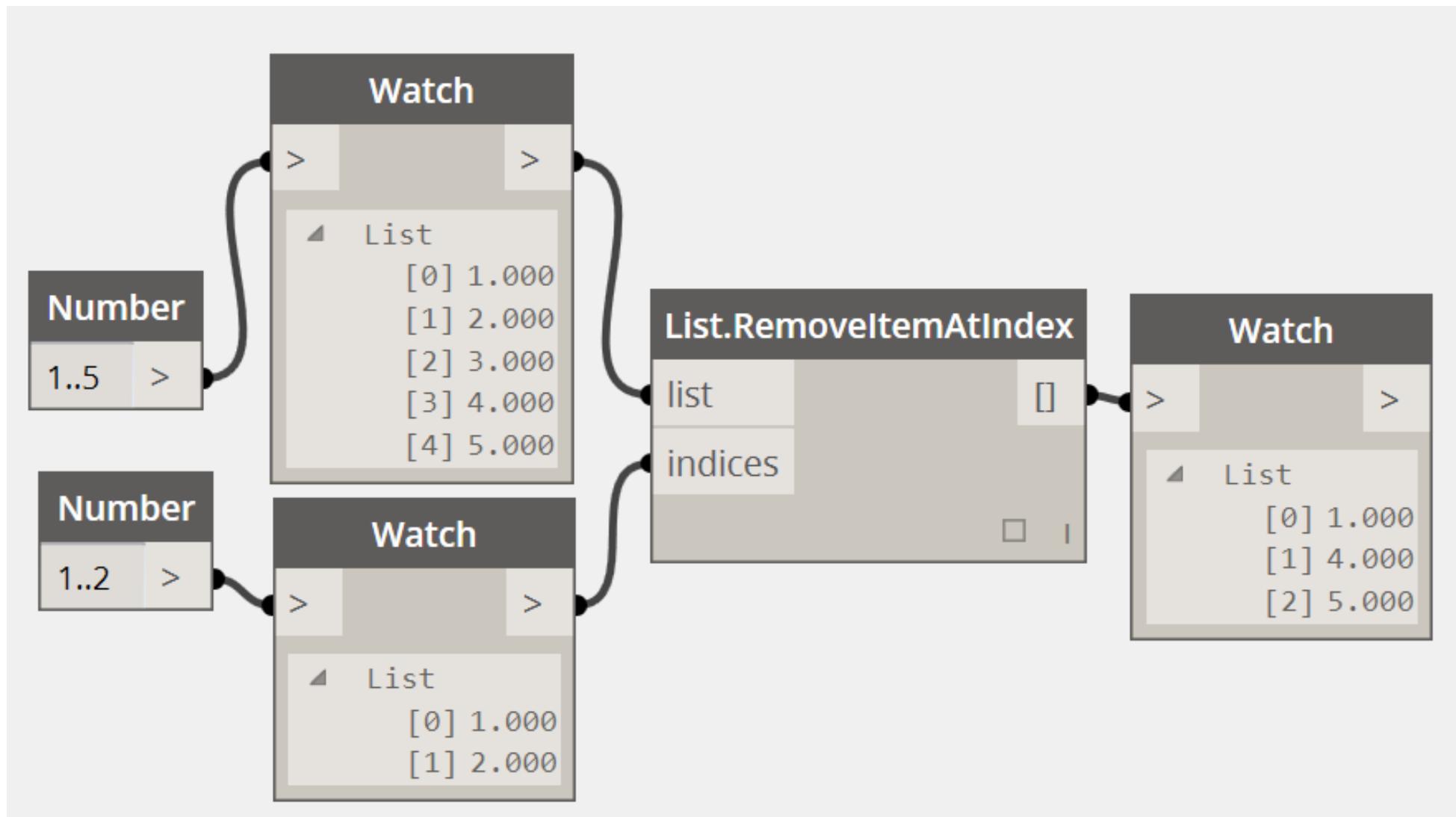
join



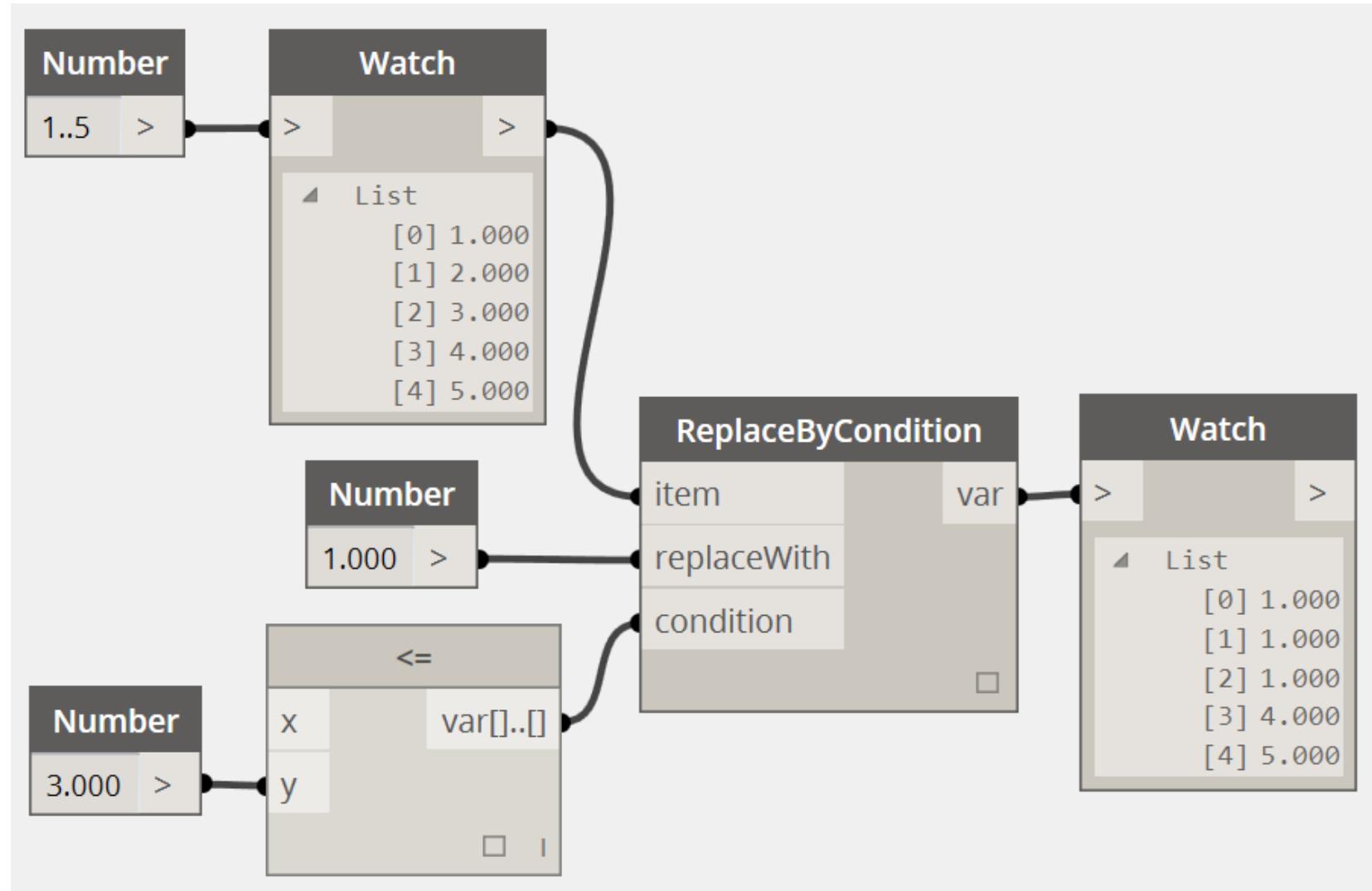
map/reverse



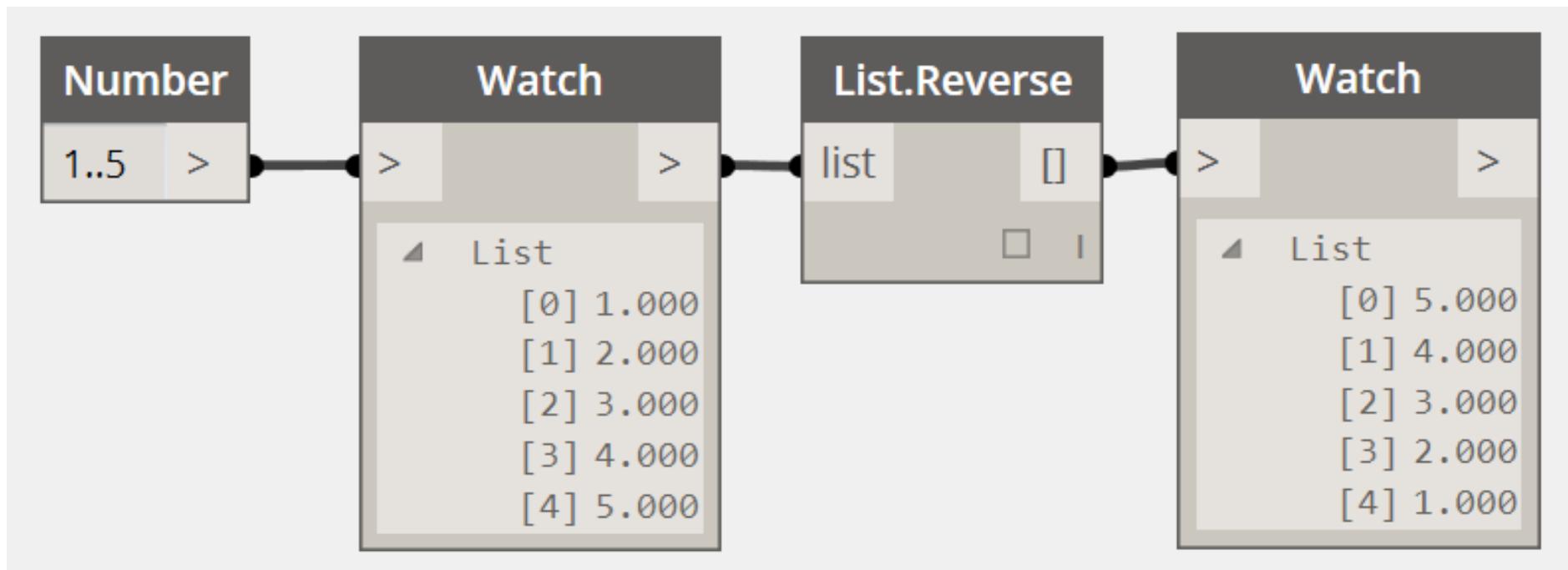
remove



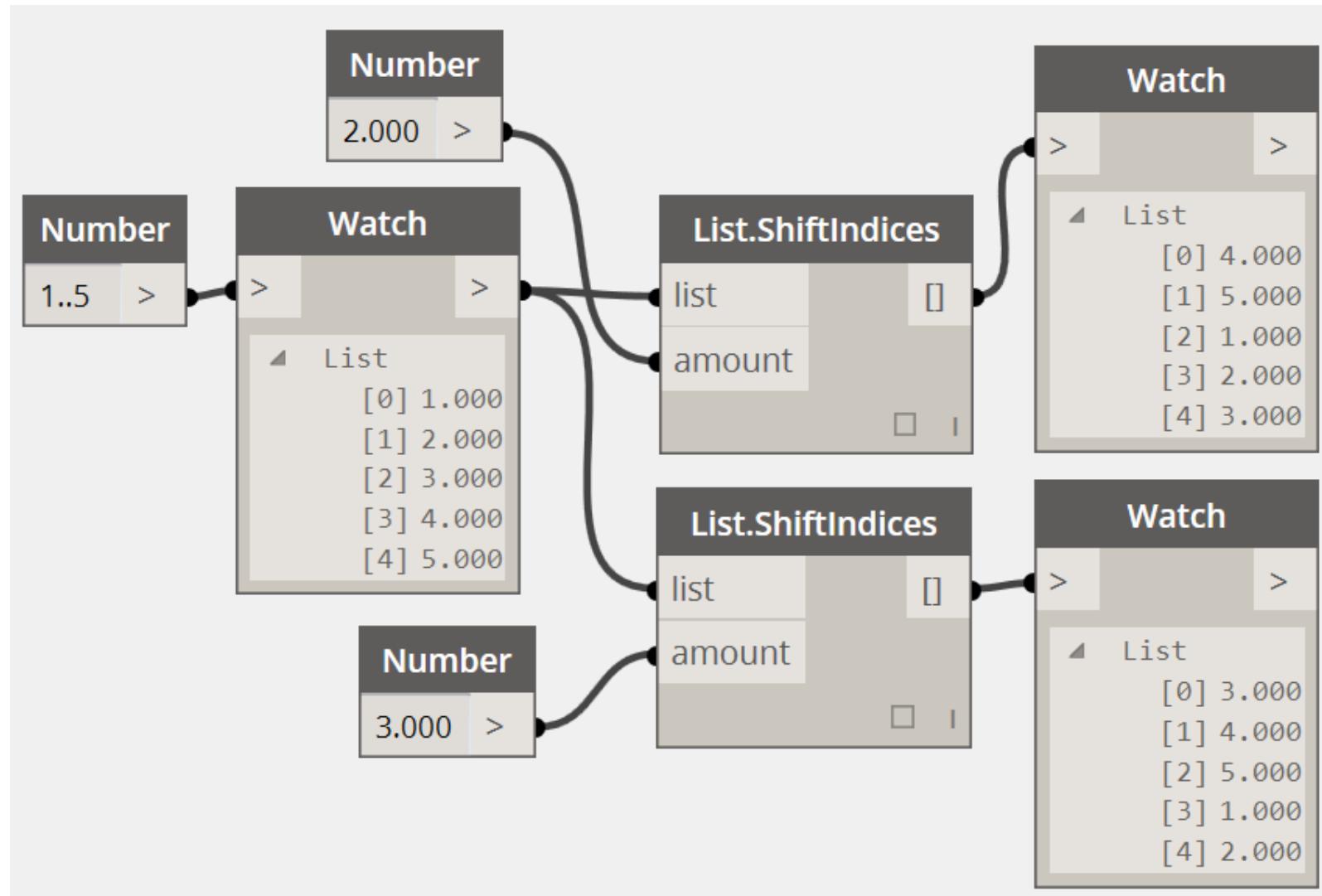
replace



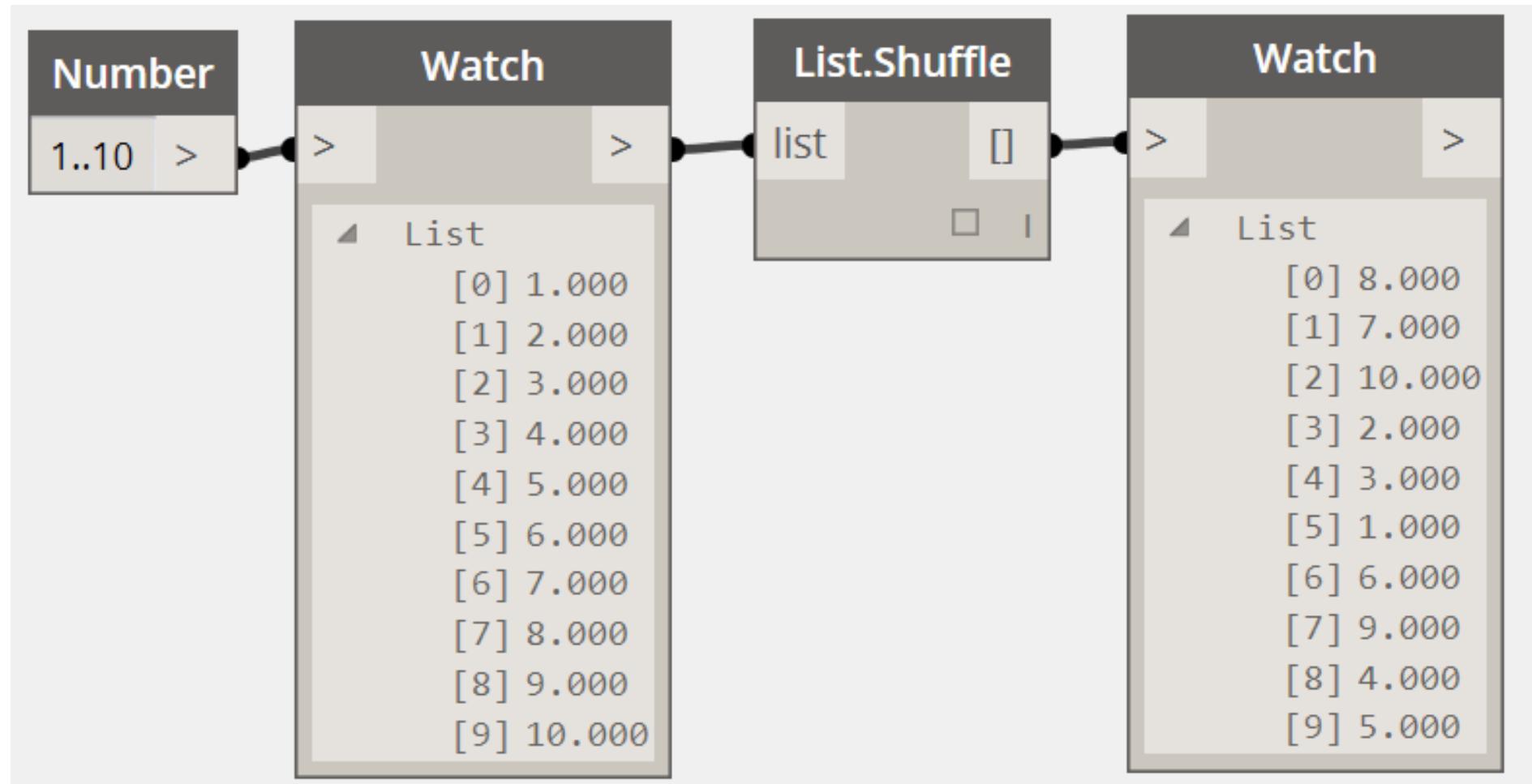
reverse



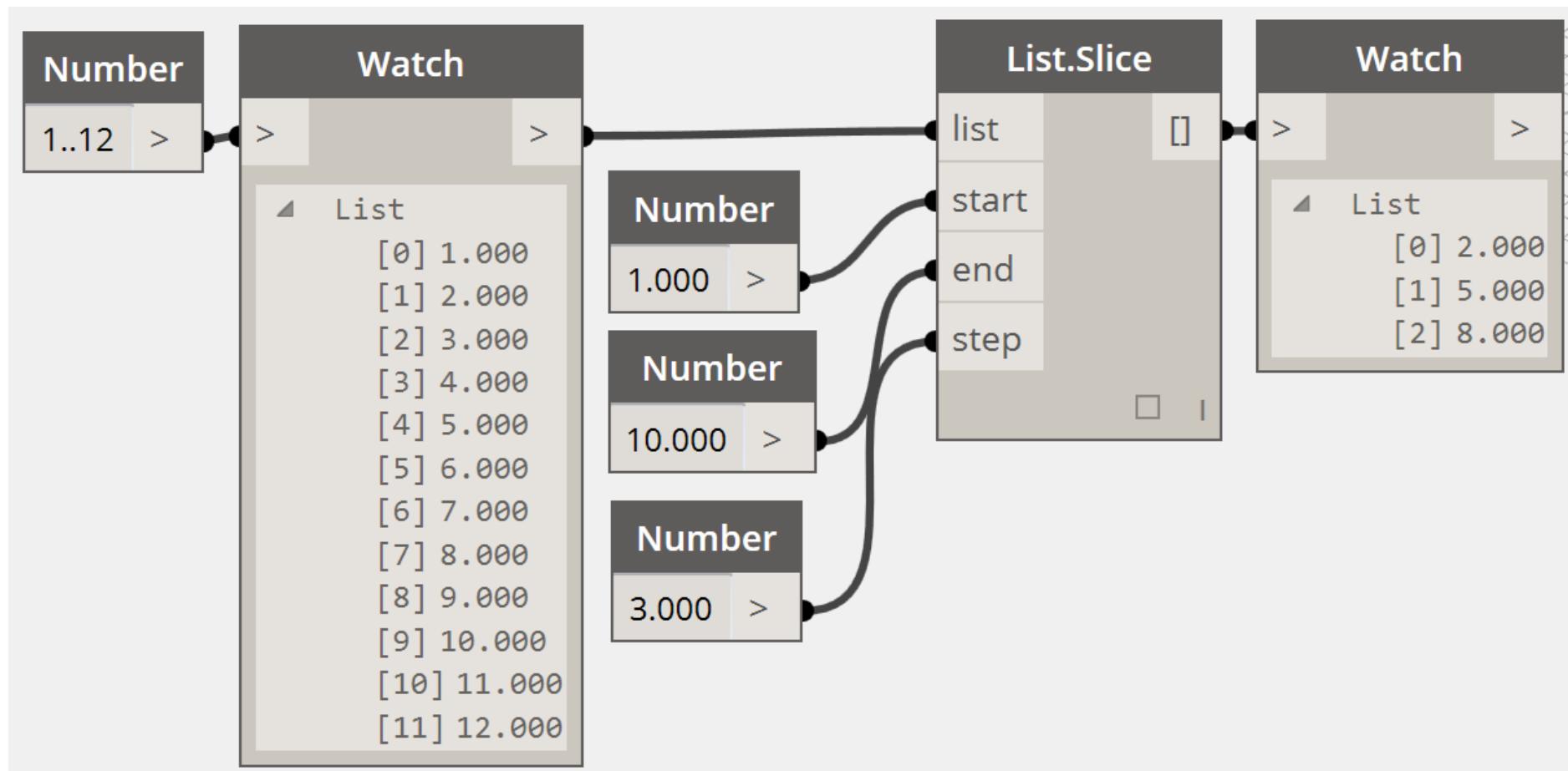
shift



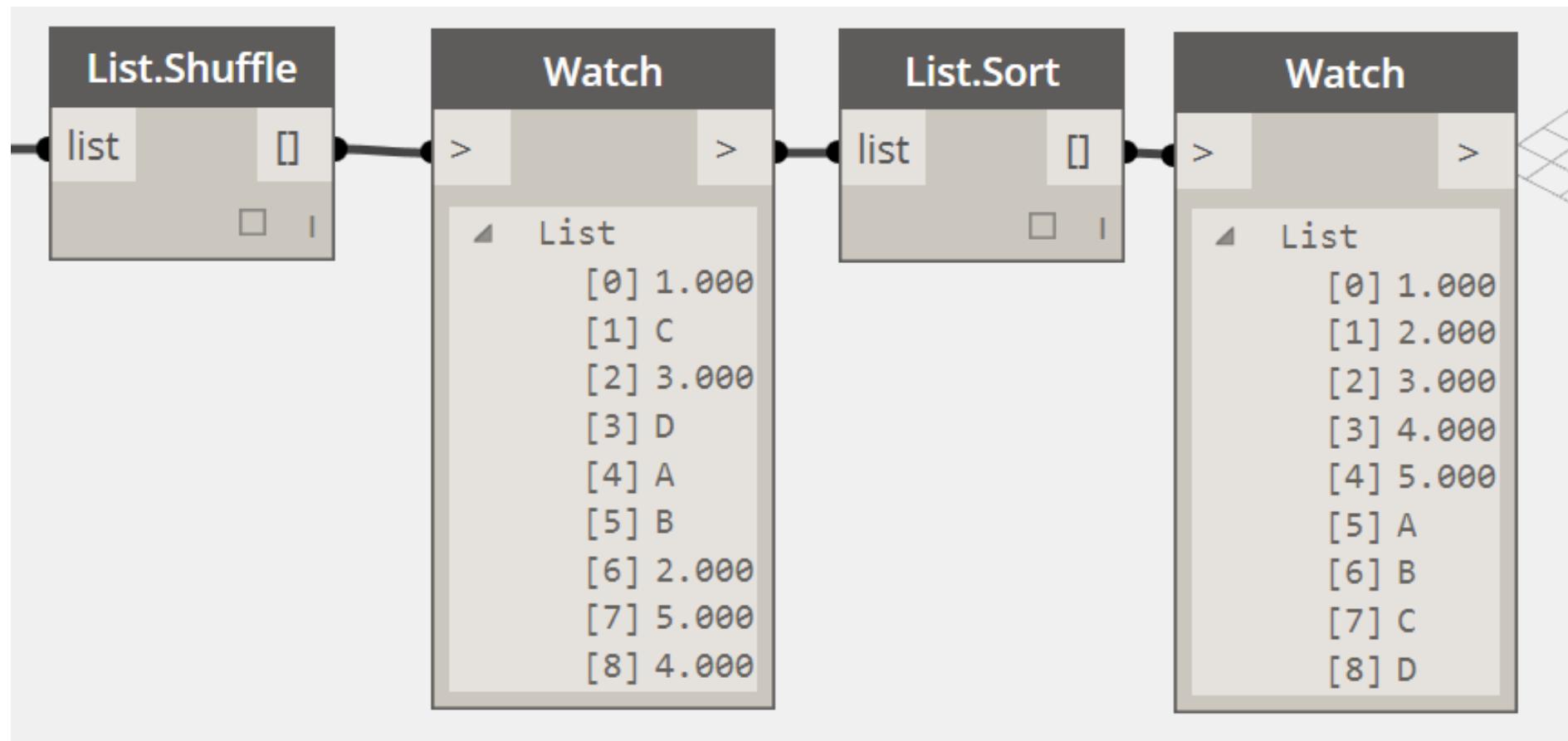
shuffle



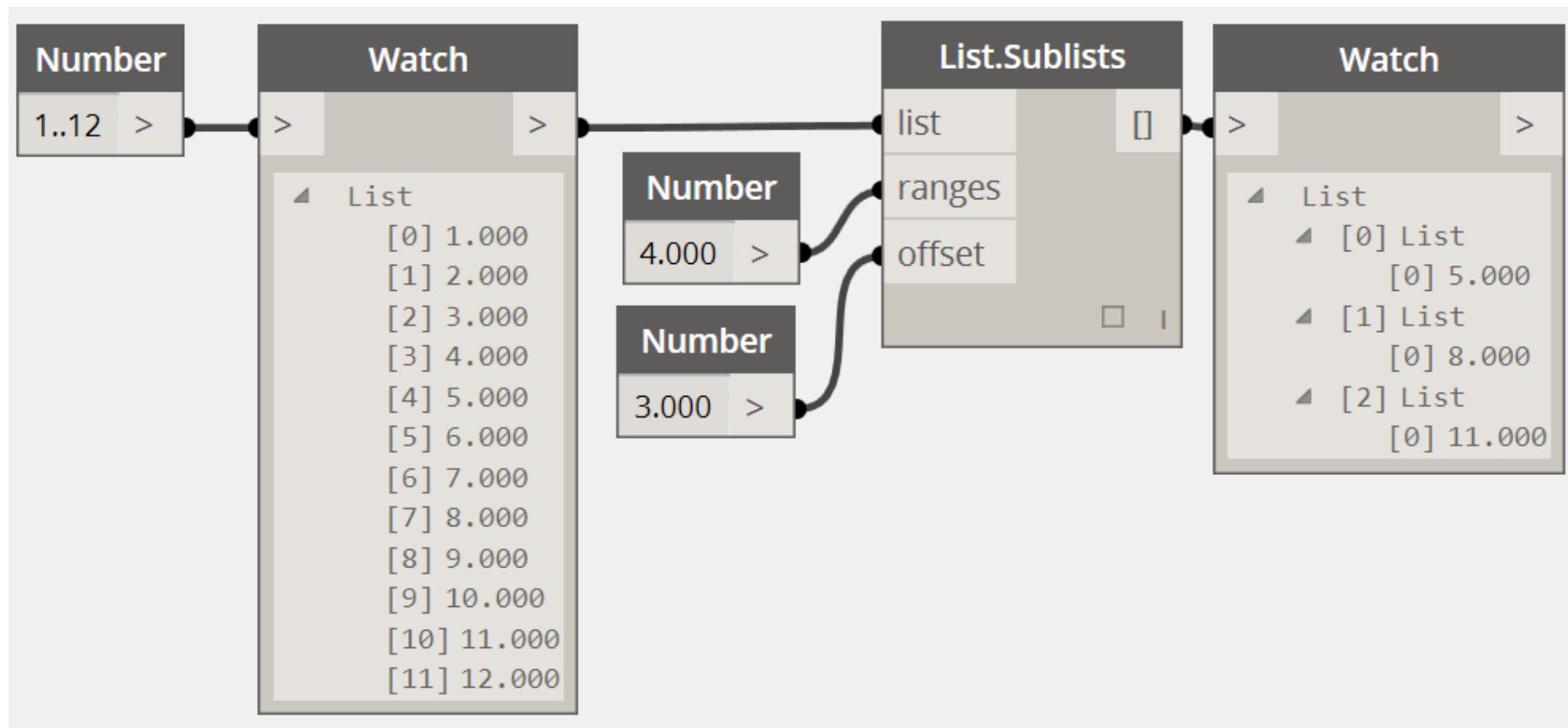
slice



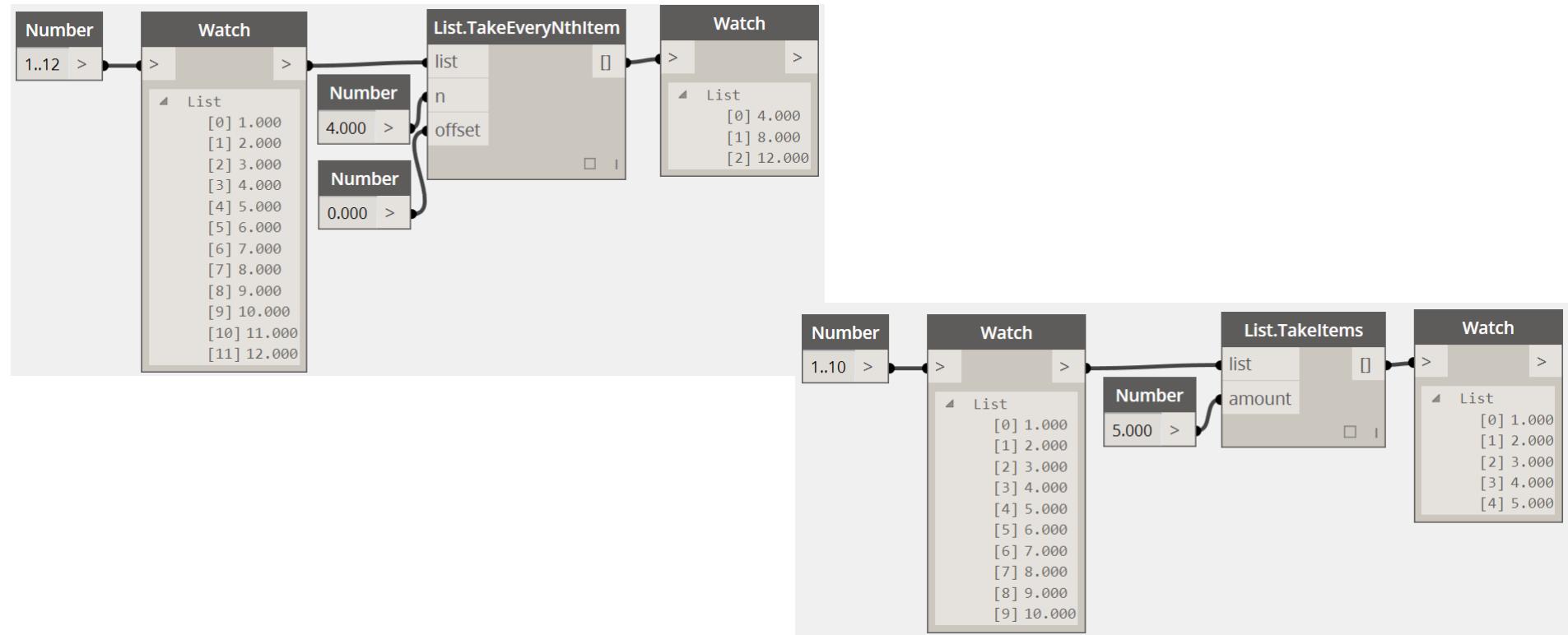
sort



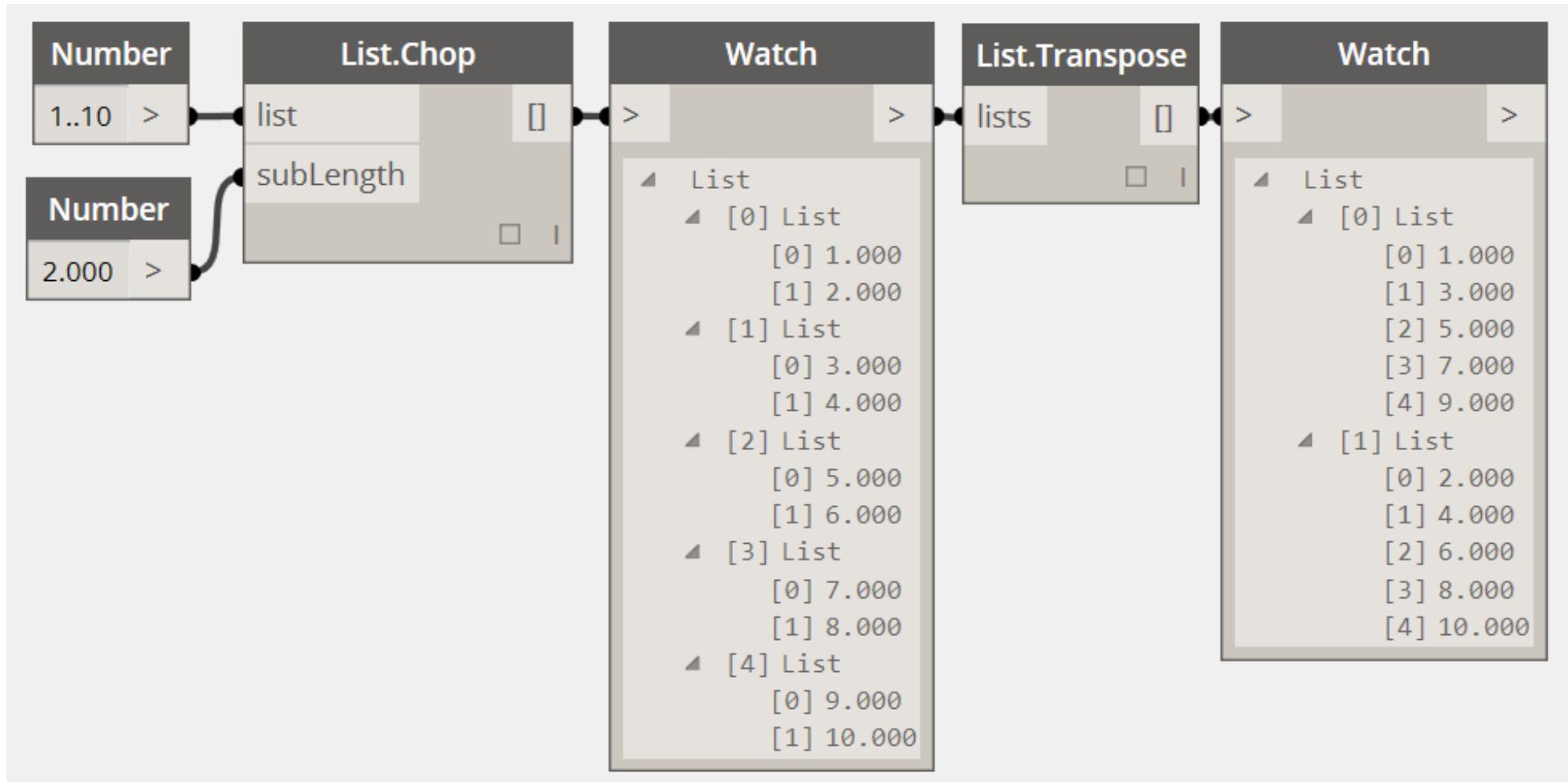
sublists



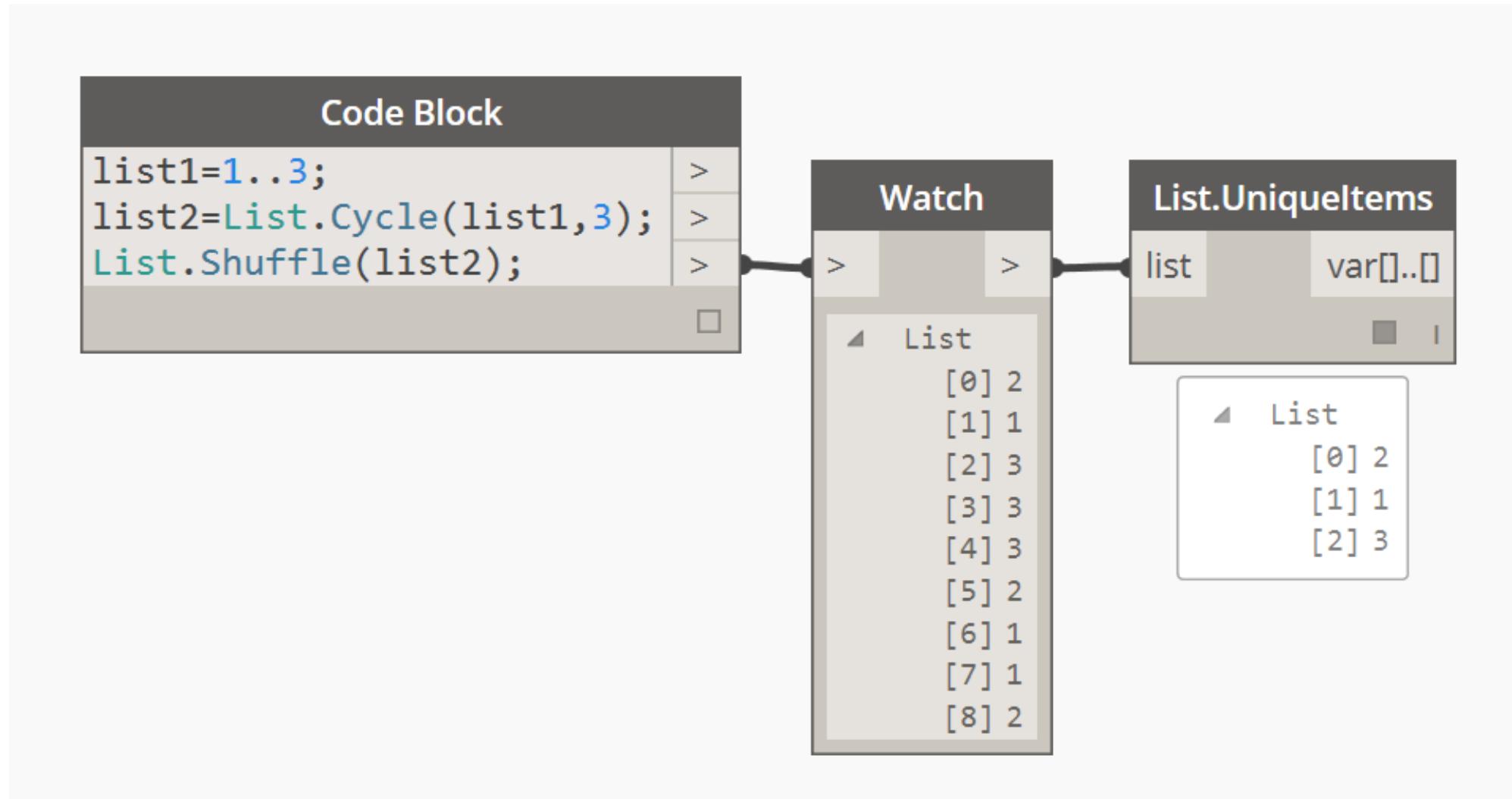
take



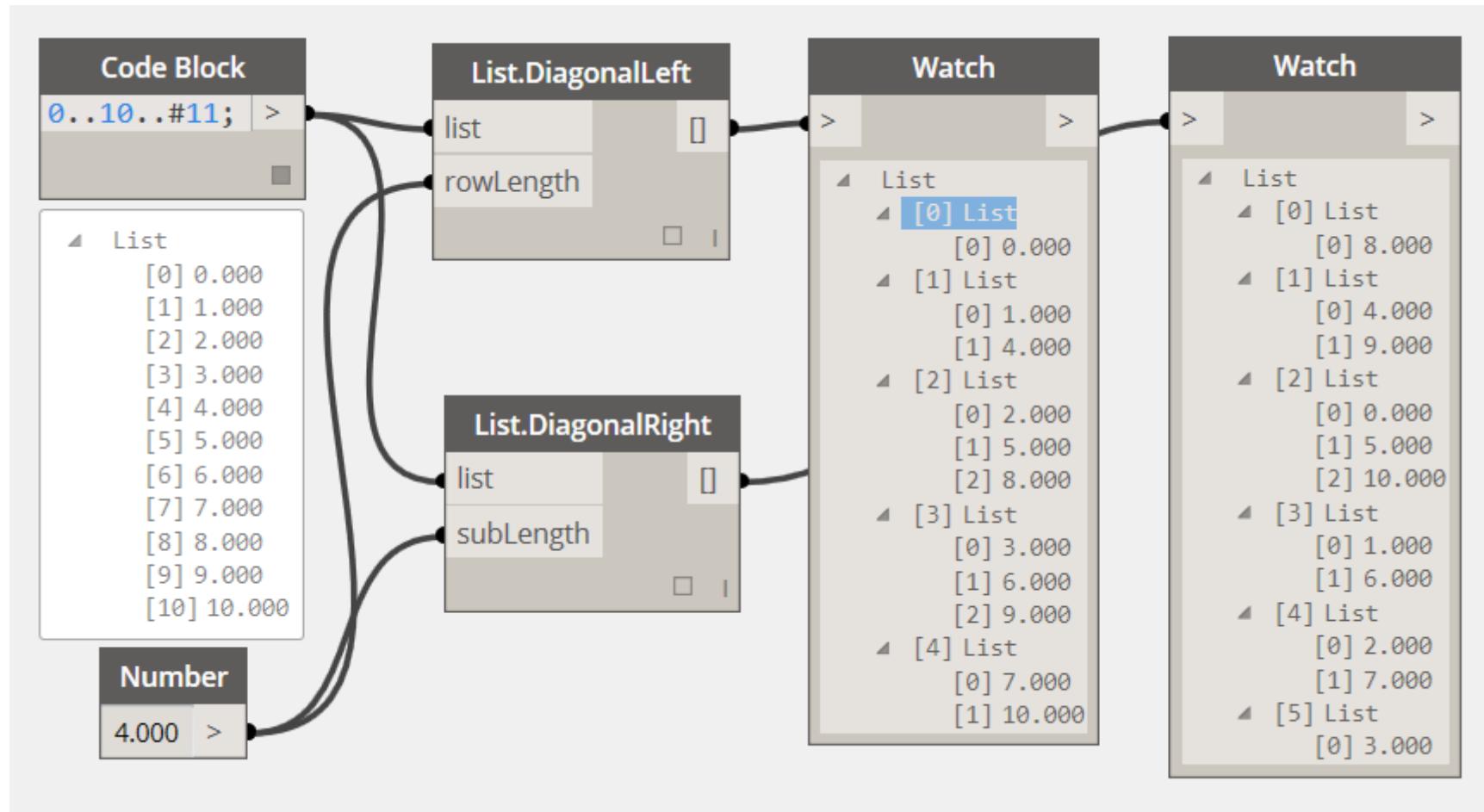
transpose



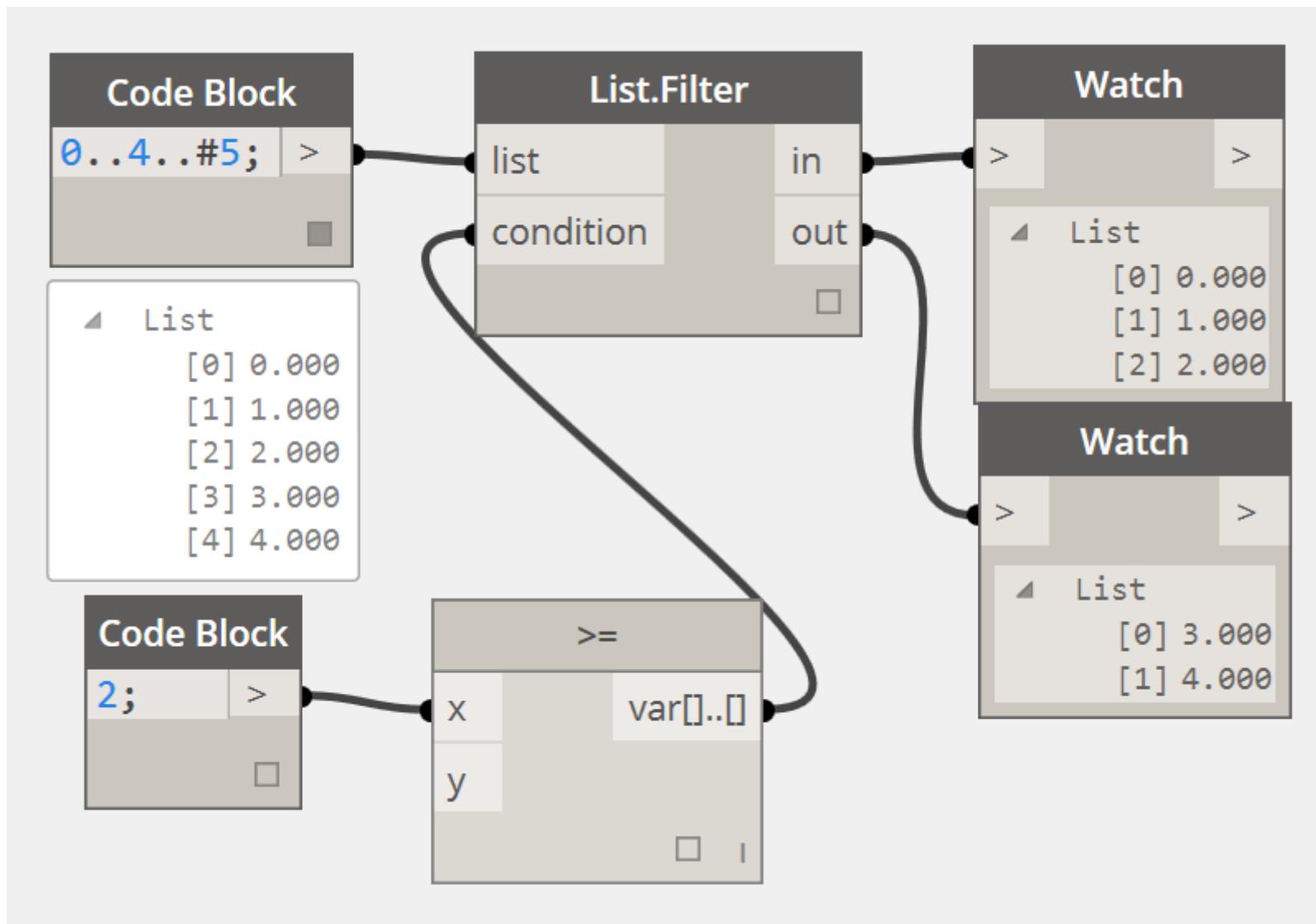
unique item



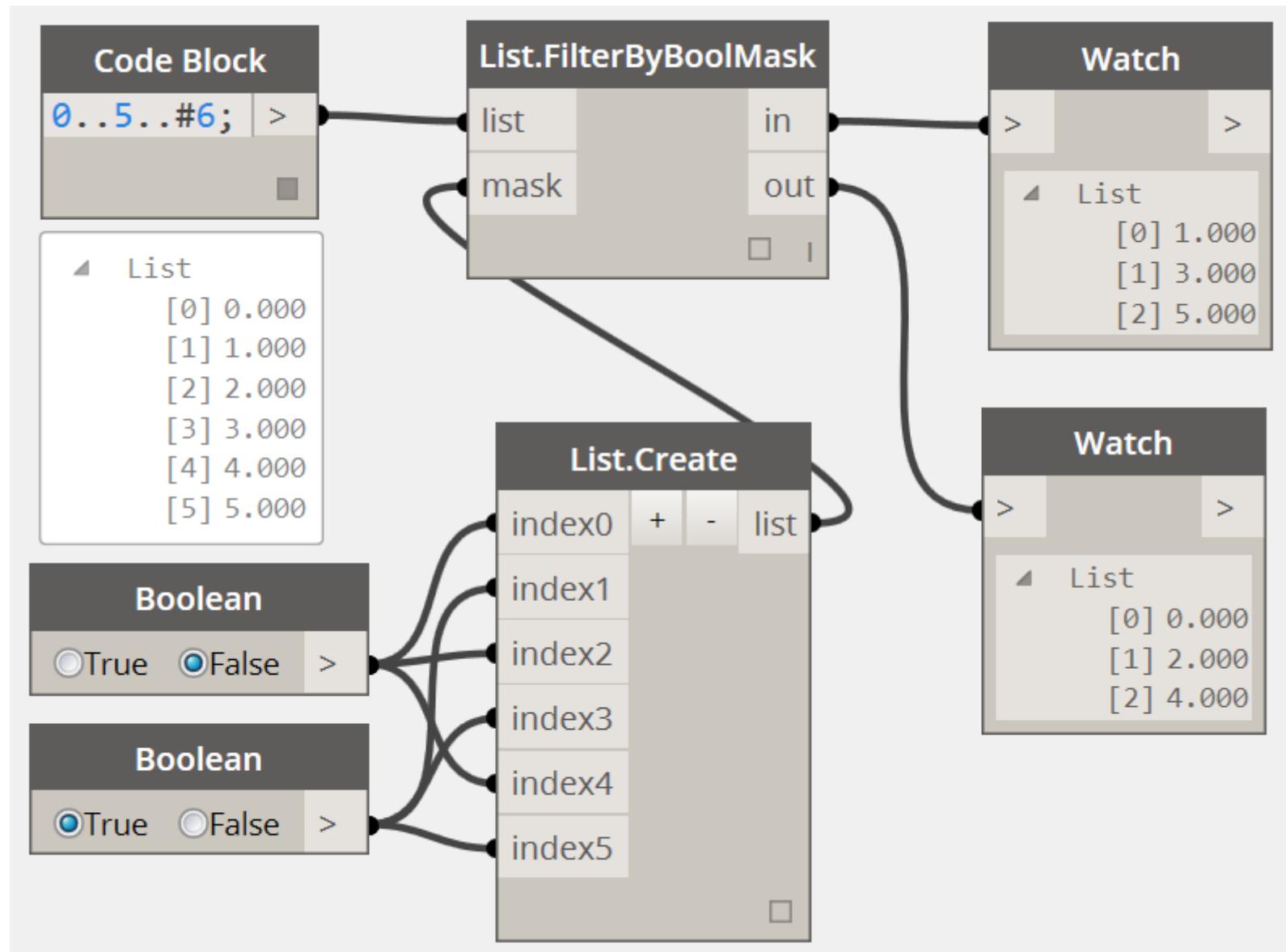
diagonal left&right



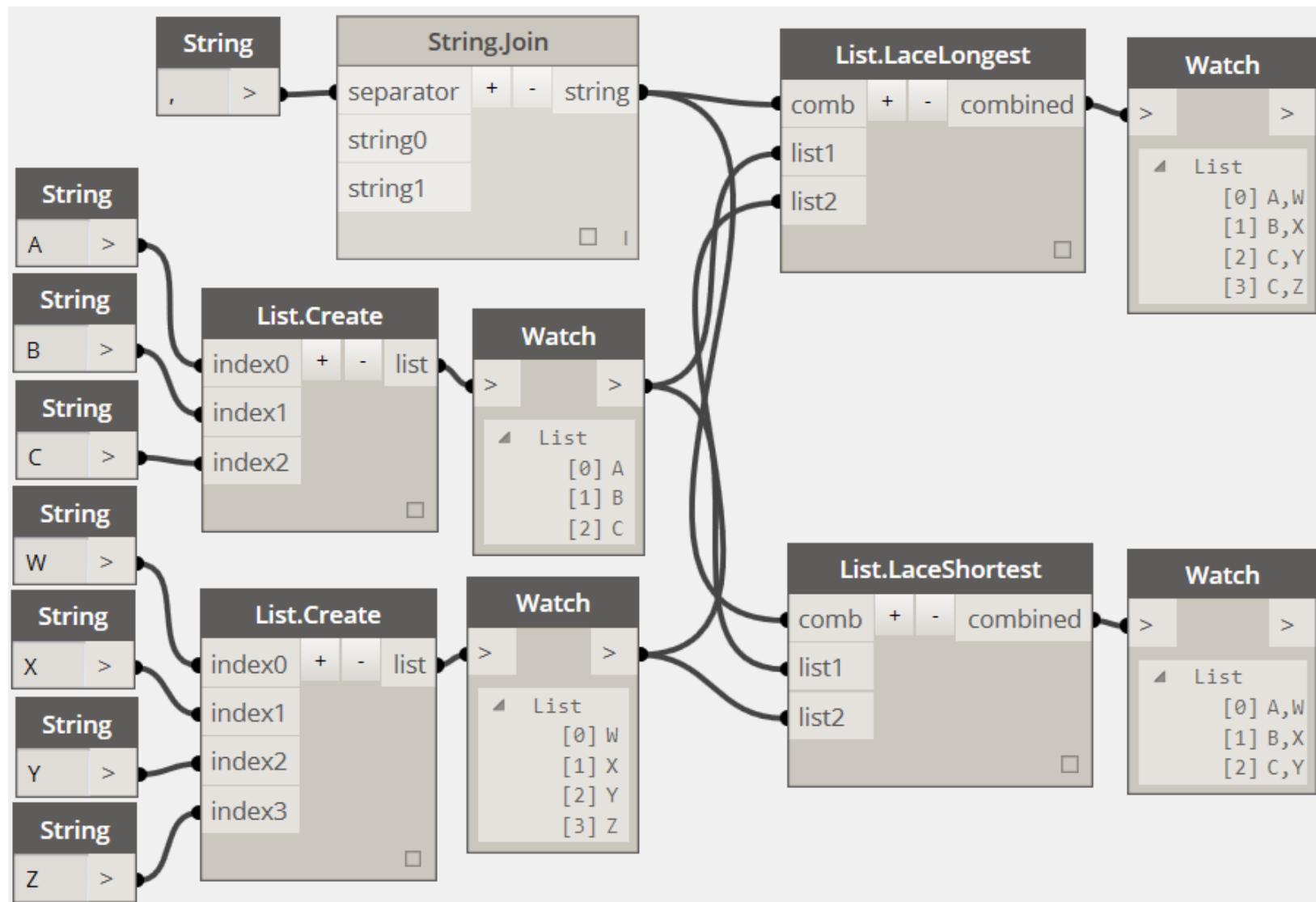
filter



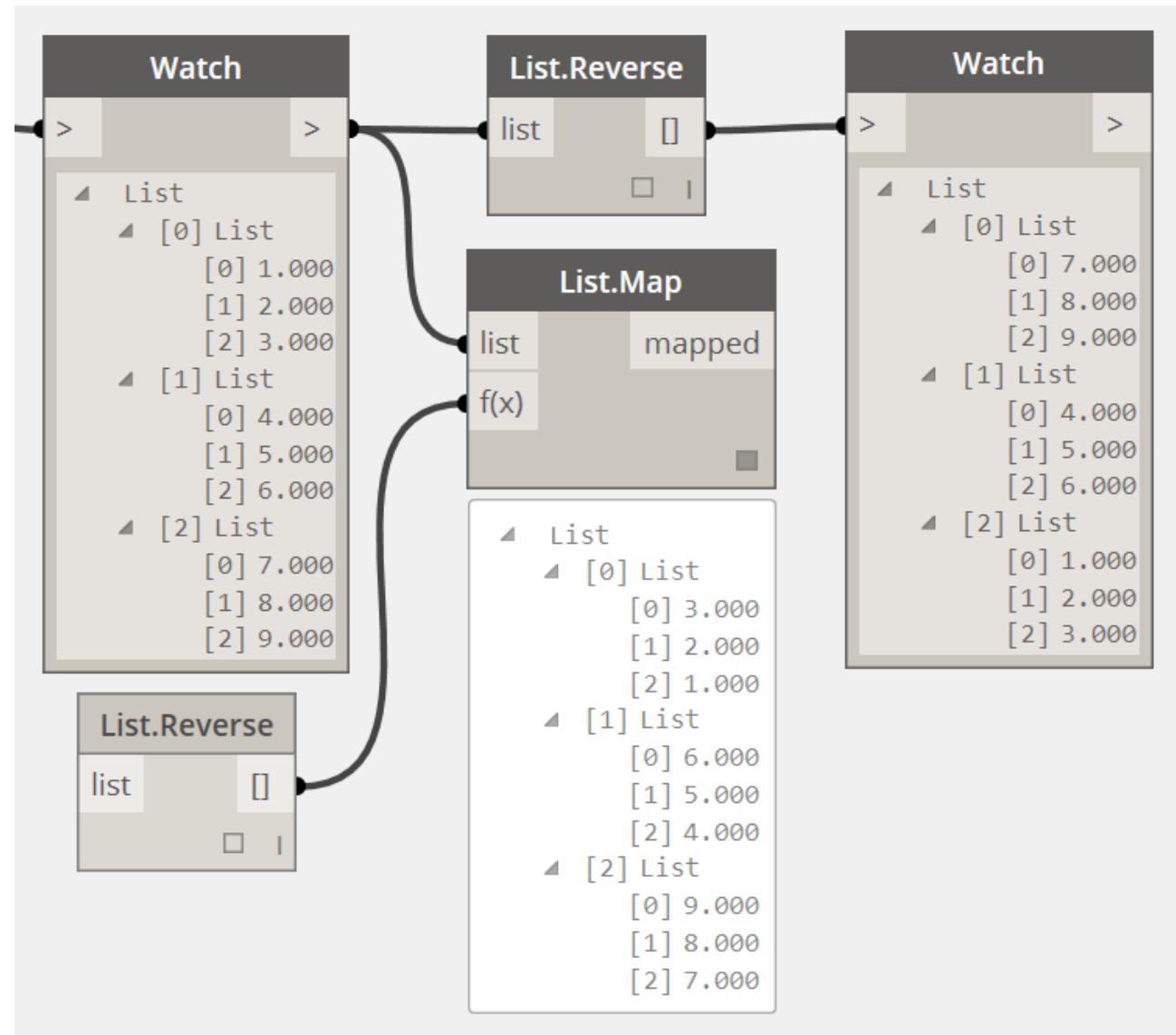
filter by bool mask



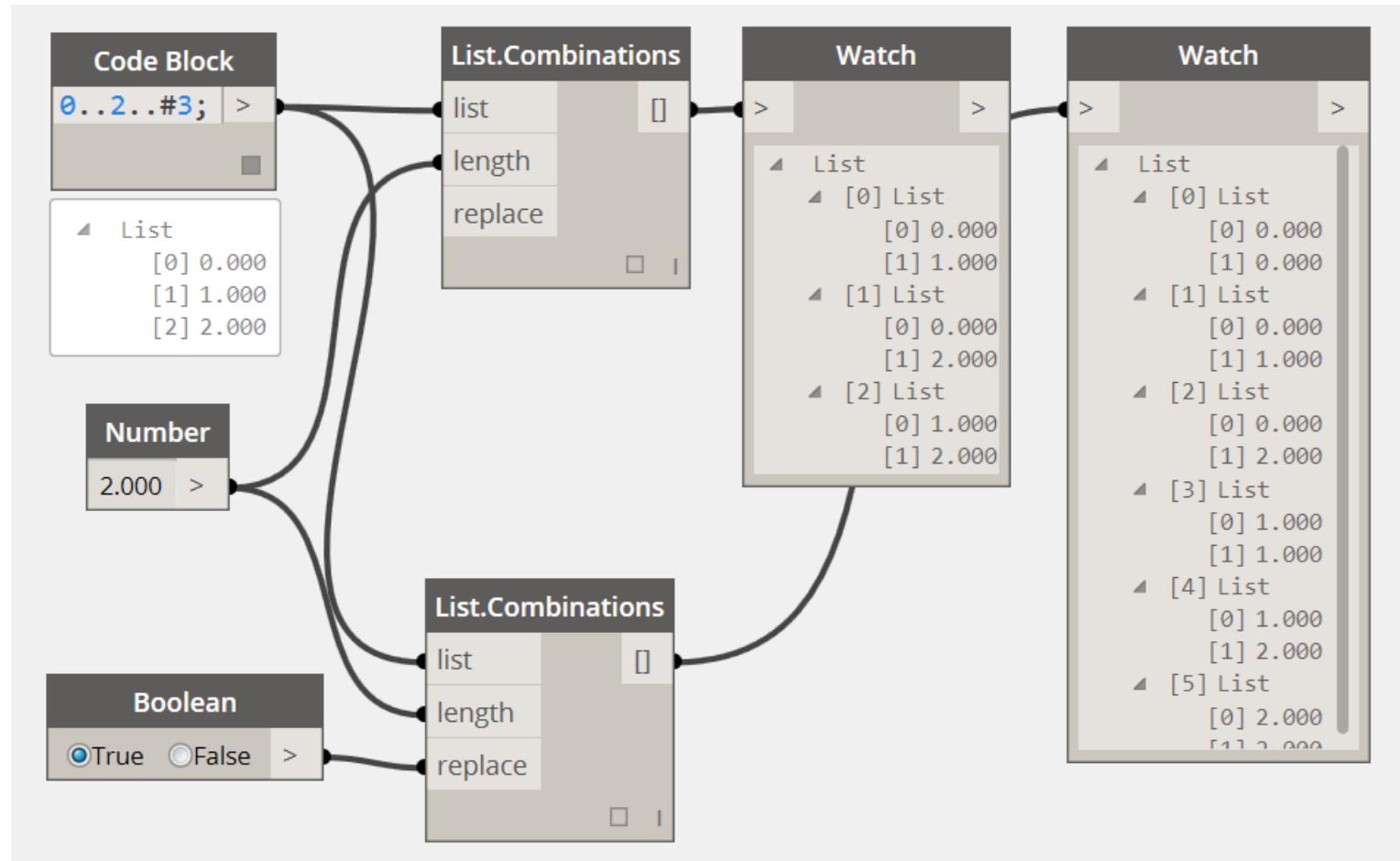
lace



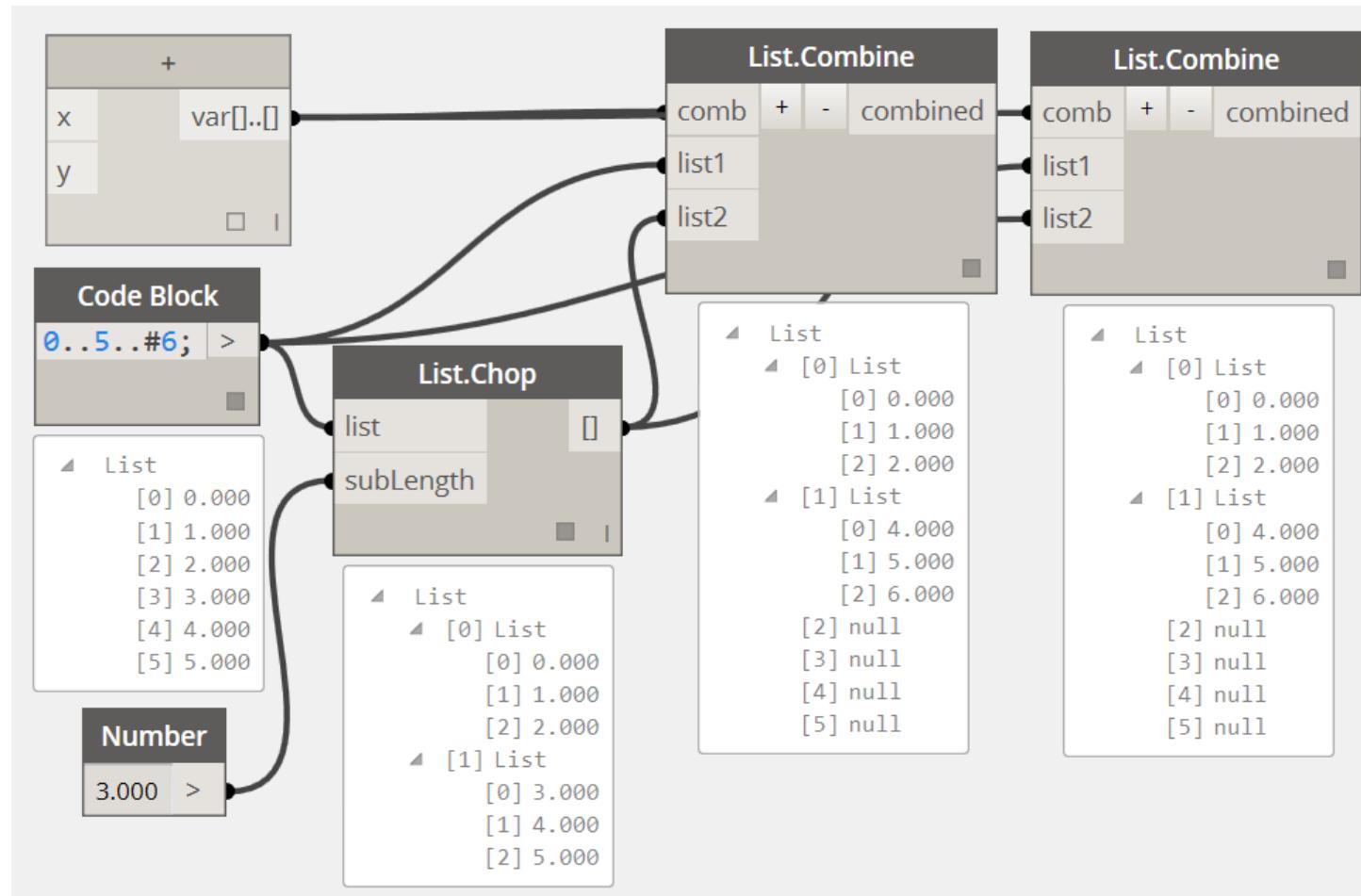
map



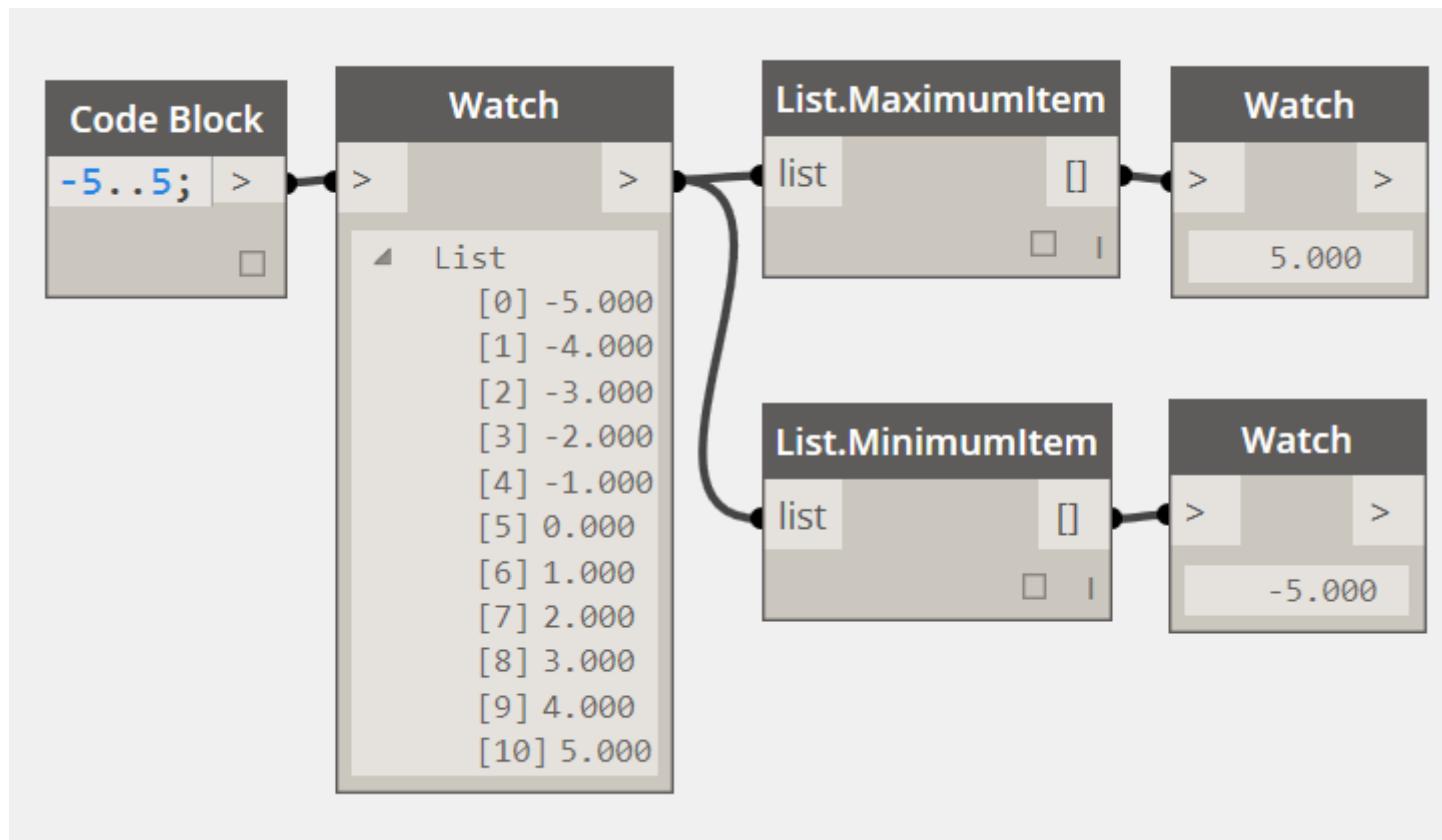
combinations



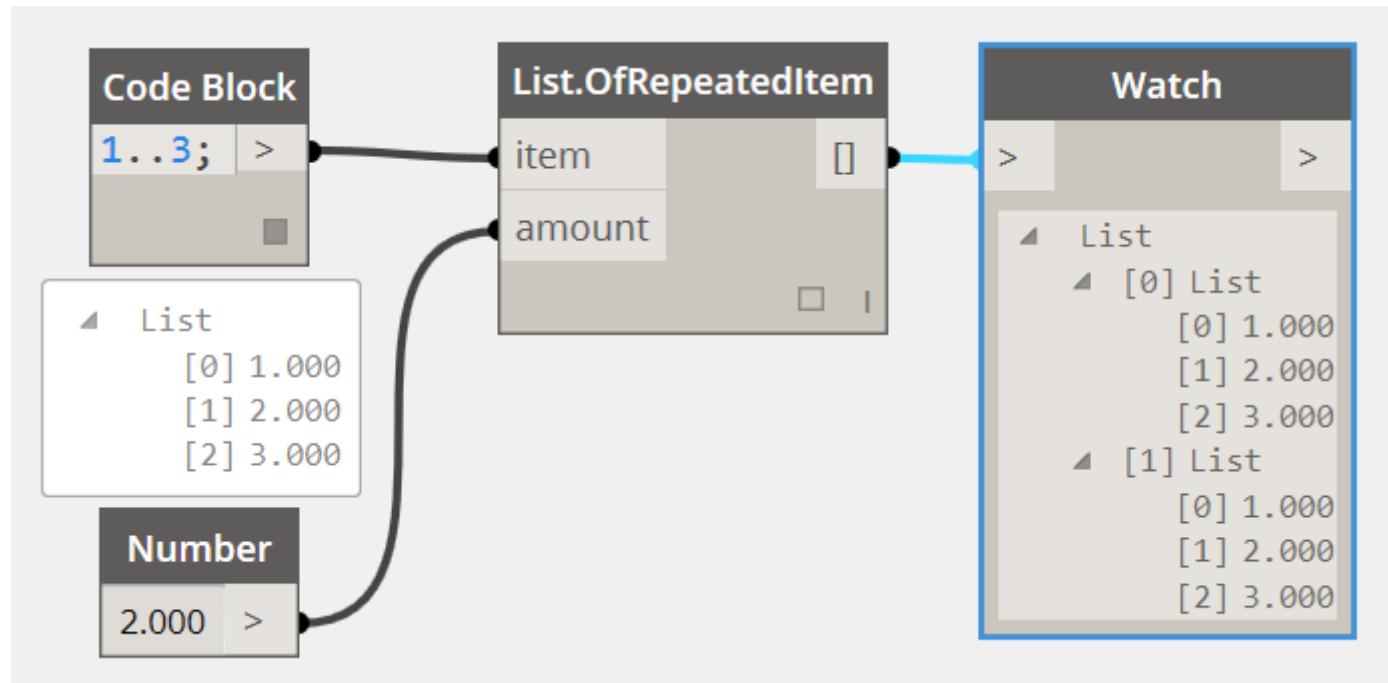
combine



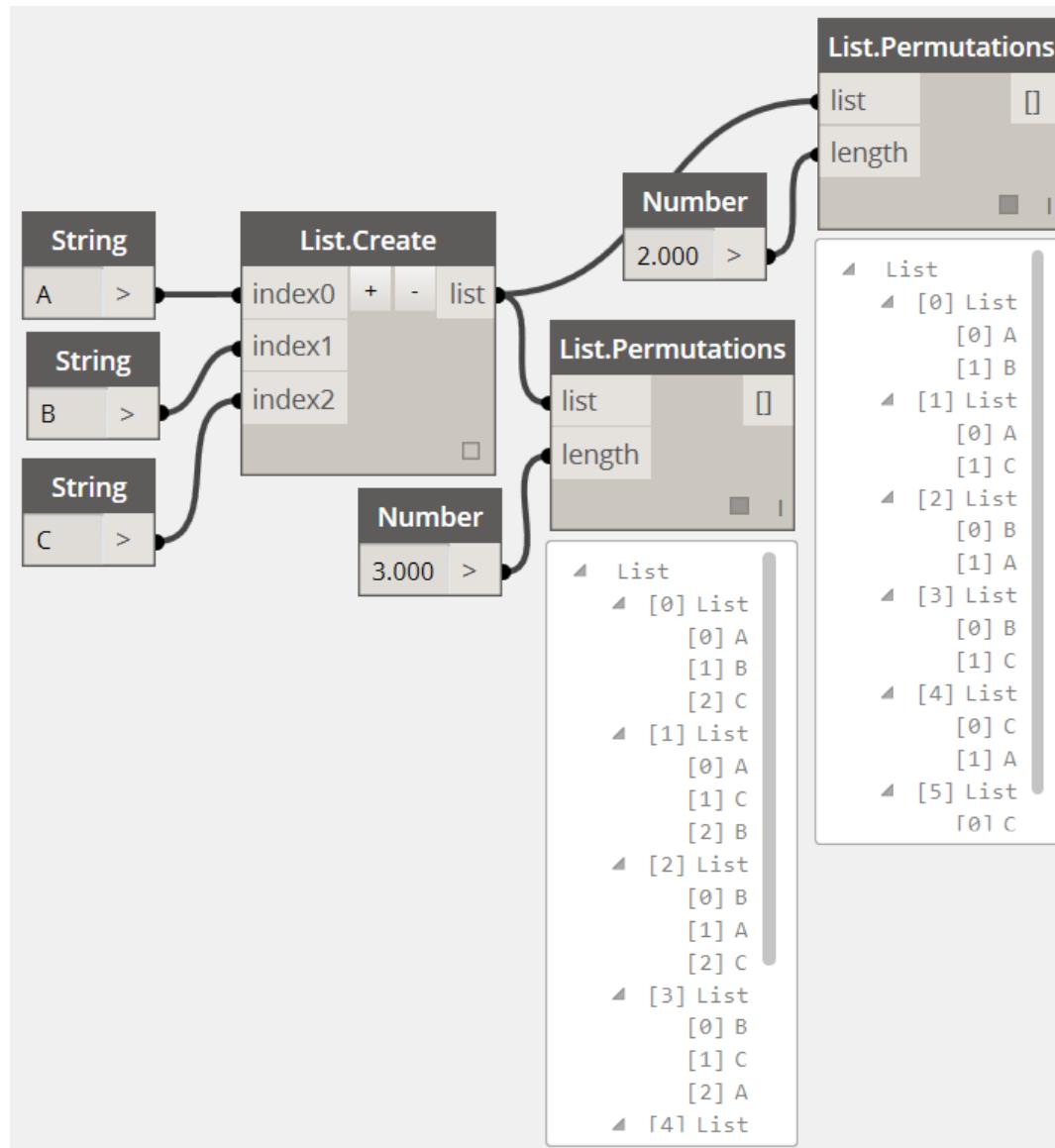
maximum/minimum item



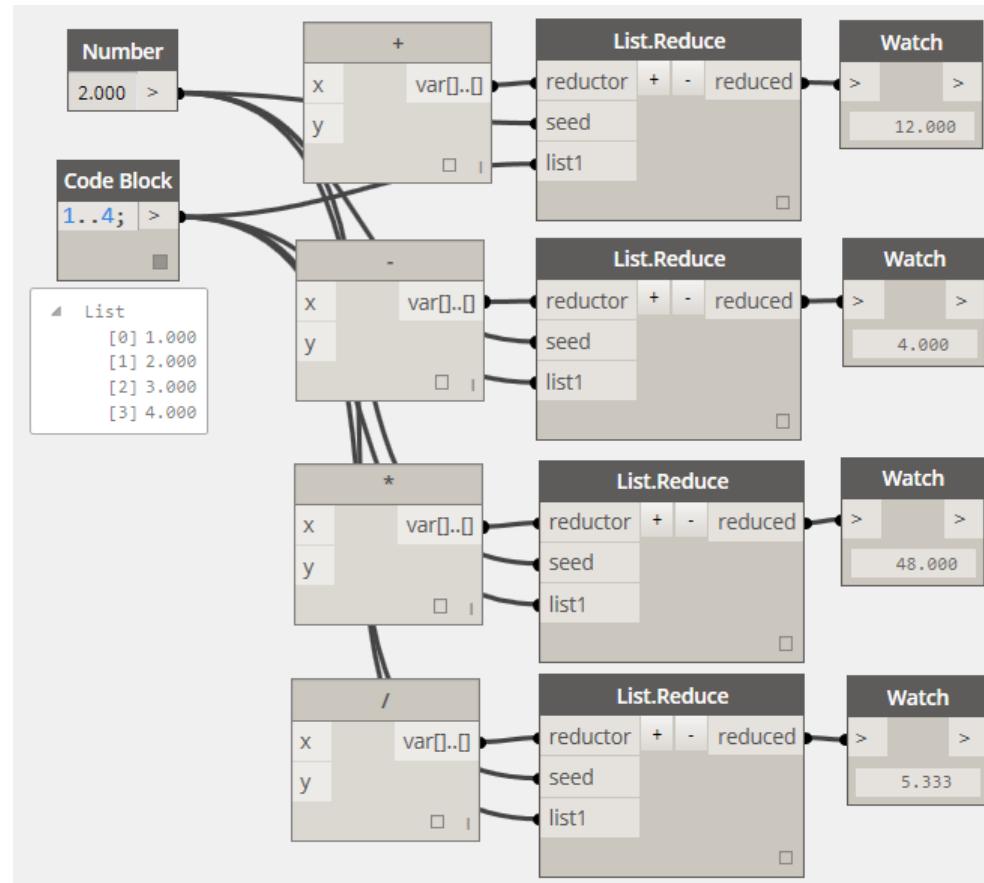
repeated items



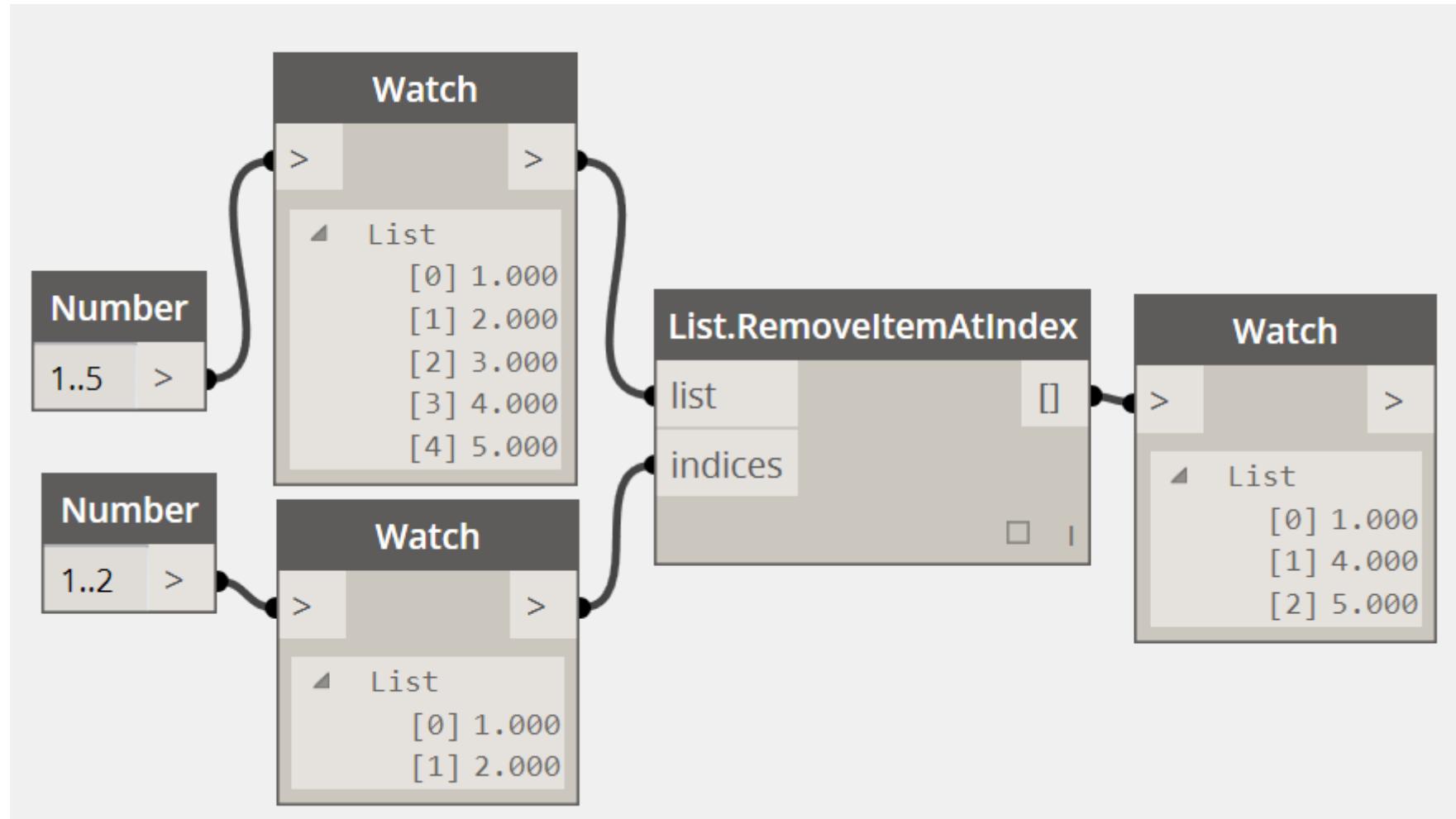
permutations



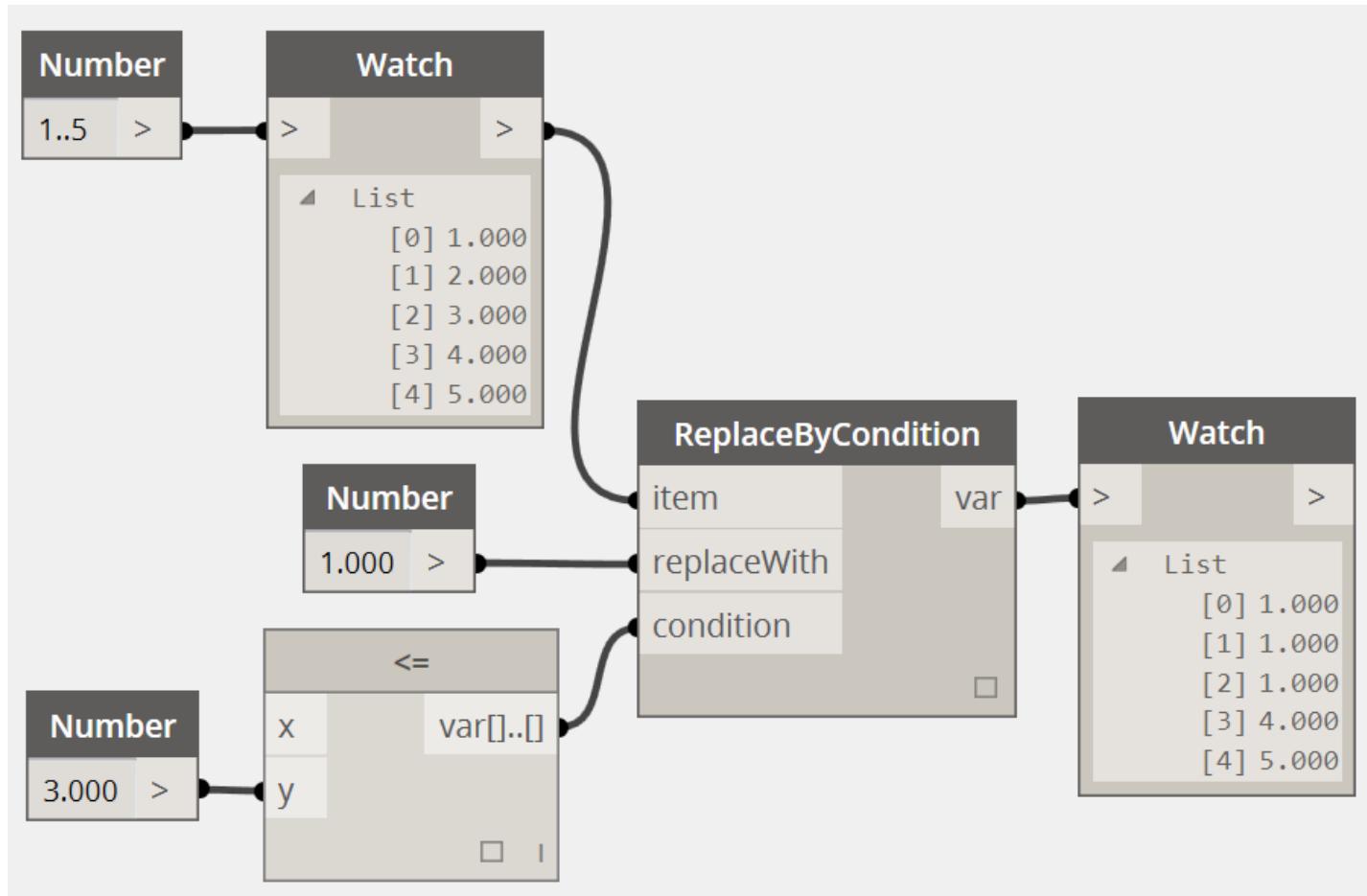
reduce



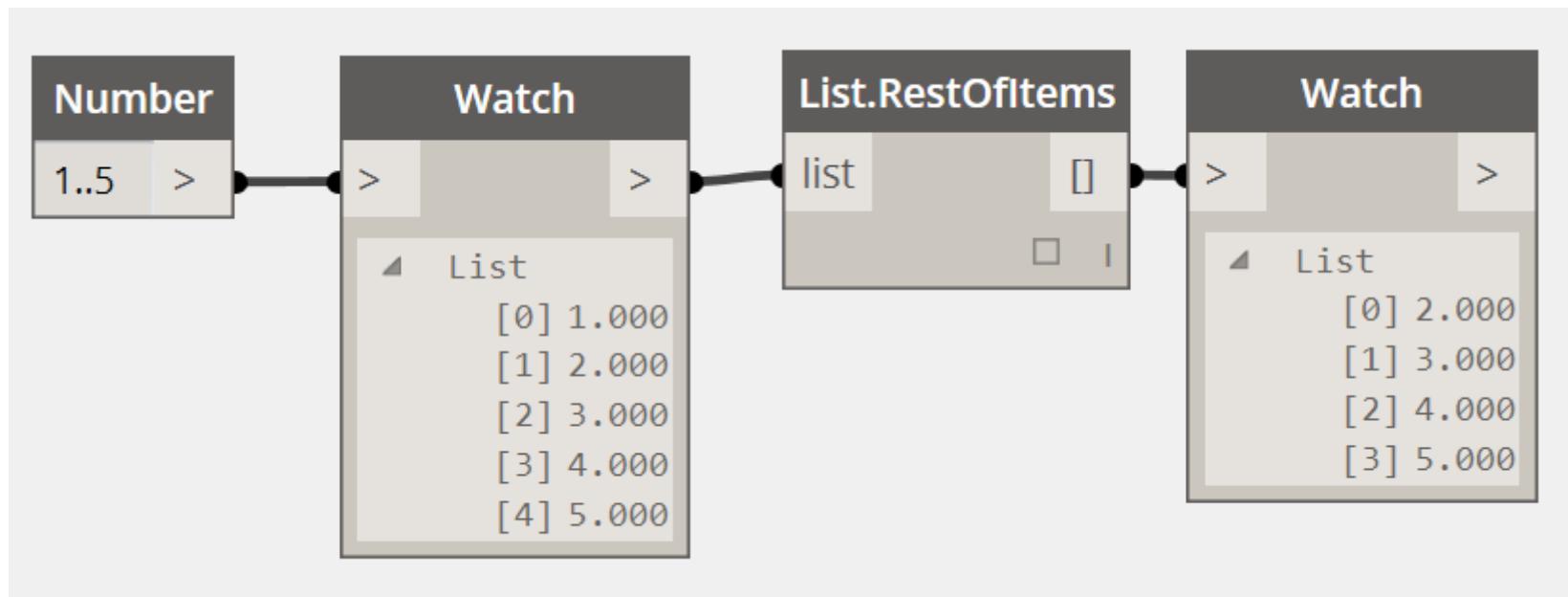
remove item @ index



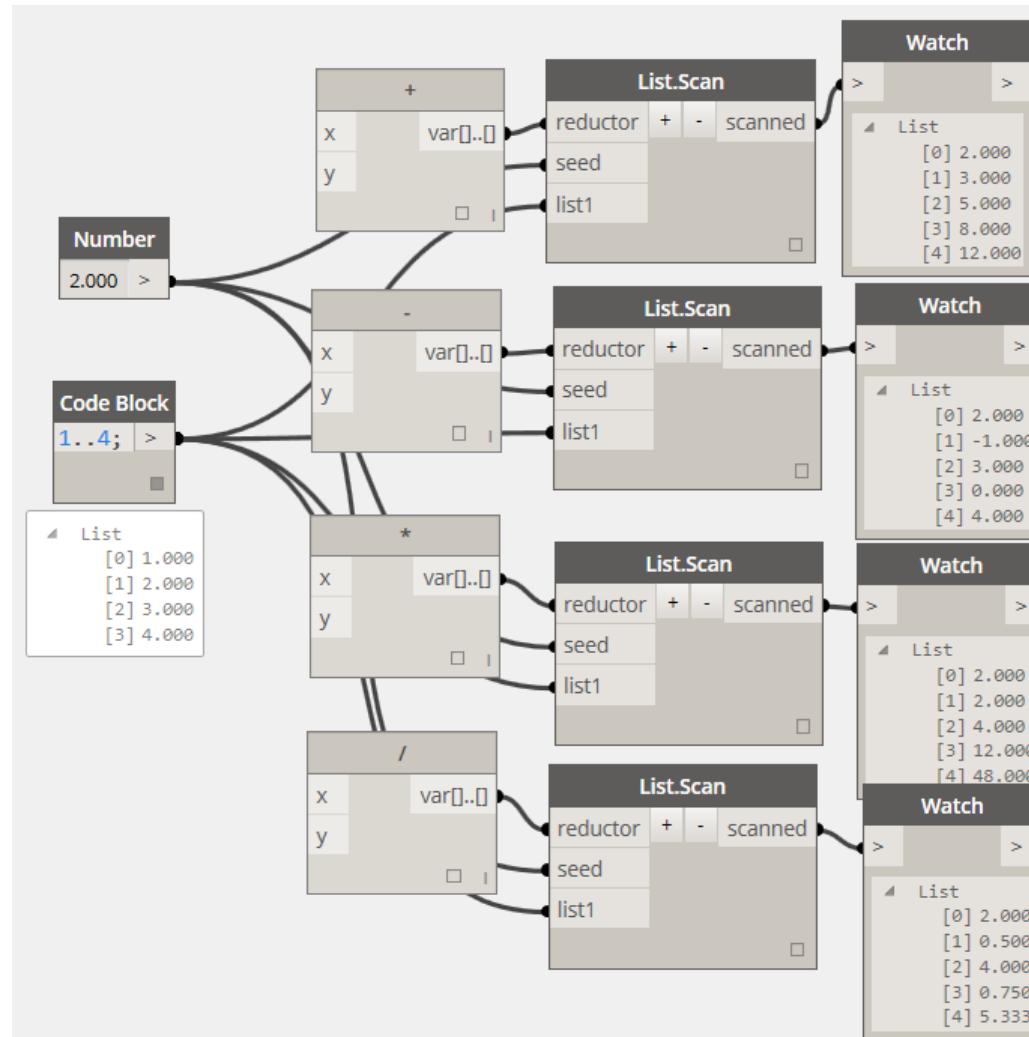
replace by condition



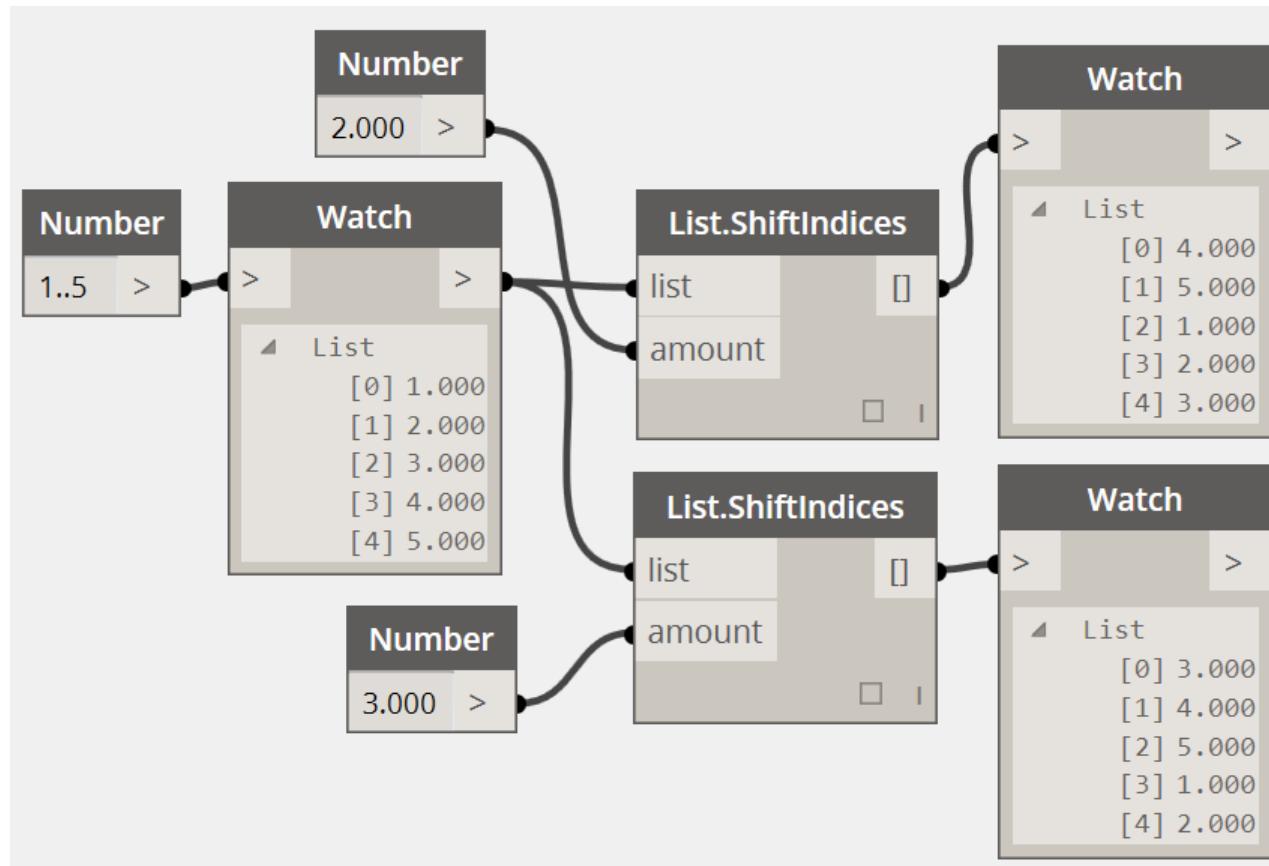
rest of items



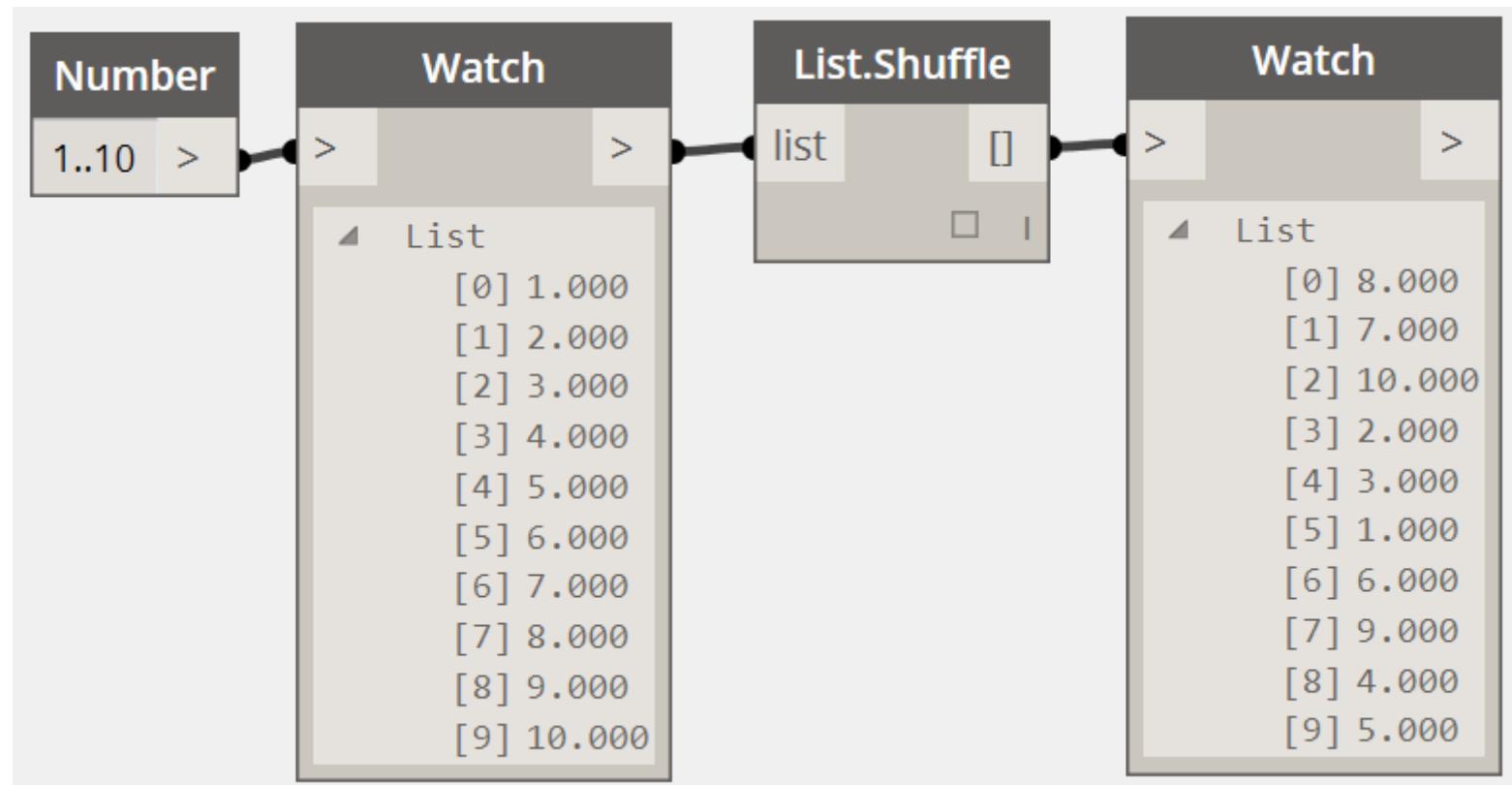
scan



shift indices



shuffle



...well done !

• • •