



My Top 10
Dynamo Nodes!

My Top 10 Dynamo Nodes



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Nodes

There's so many!

Here are my most used and
favourite nodes in order!



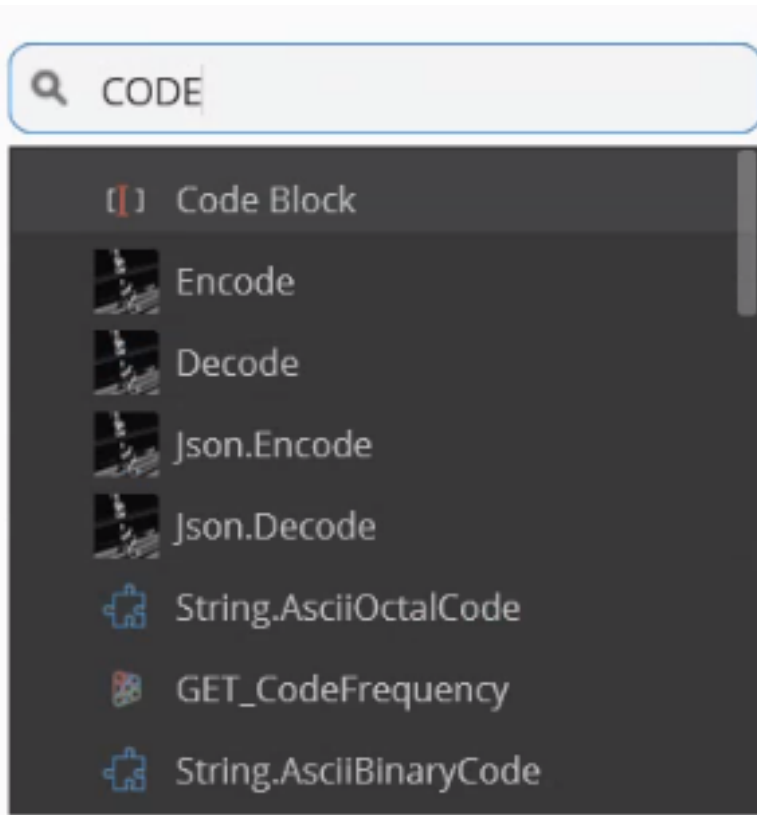
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10

Code Blocks & Python Script



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Allows for DesignScript code to be authored directly



INPUT
none

OUTPUT
none



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Code Block		
variable_1	"text";	>
variable_2	1.0;	>
	1;	>
	"more text";	>
	variable_1;	>
	variable_2;	>
	variable_2*variable_1;	>



Q PYTHON

- Python Script
- LastItem Pythonic
- Python Version
- Python Script From String
- Mirror an Element
- Flat List to List of Strings
- Get All Revisions
- Wildcard String Search One List in

Runs an embedded IronPython script.



INPUT
none

OUTPUT
var[]--[]





A screenshot of a software window titled "Python Script". The window has a blue title bar with standard minimize, maximize, and close buttons. The main area is a dark grey text editor containing three lines of Python code:

```
1 import clr
2 from System import Environment
3 OUT = Environment.UserName
```

At the bottom of the window, there is a black bar with three buttons: a green "Run" button with a play icon, a "Save Changes" button, and a "Revert" button.



Learn Dynamo Lesson 5

0:10 / 16:09

Learn Dynamo - Lesson 5: Design Script and Code Blocks

131 views

5 0 SHARE SAVE ...



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9

Element.Delete (from archilab)




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🔍 ELEMENT DELETE

- 🏠 JoinedElements
- 🧩 Delete
- ✖️ 📄 Delete (element)
- ✖️ 📄 Delete (document, element)
- 🧩 TaggedElement
- 🧩 DeleteElement
- 🧩 Element.Delete
- 🧩 DeleteByCategory

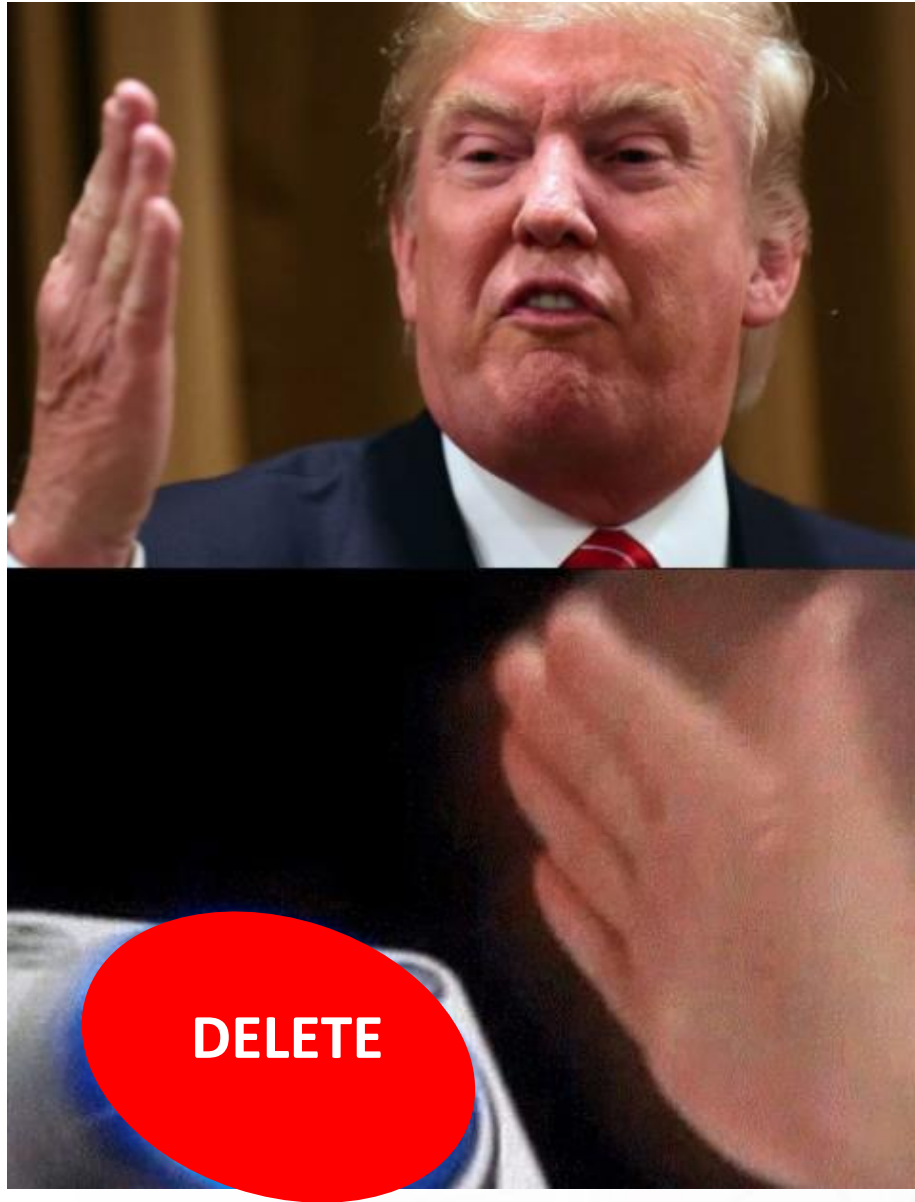
Delete selected elements

 custom node

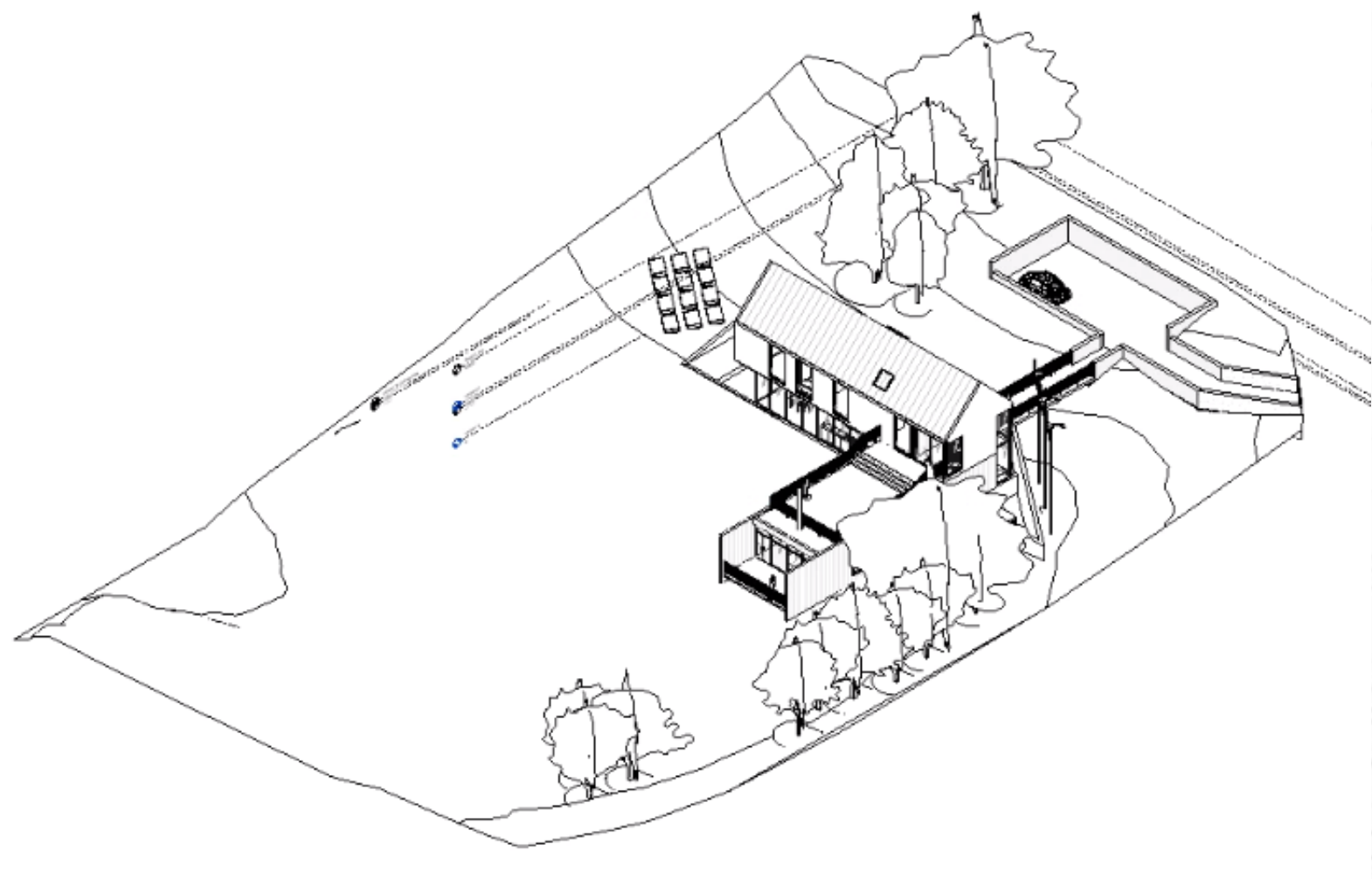
INPUT
none

OUTPUT
none





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All Elements In Active View

elements

Elements.Delete

element

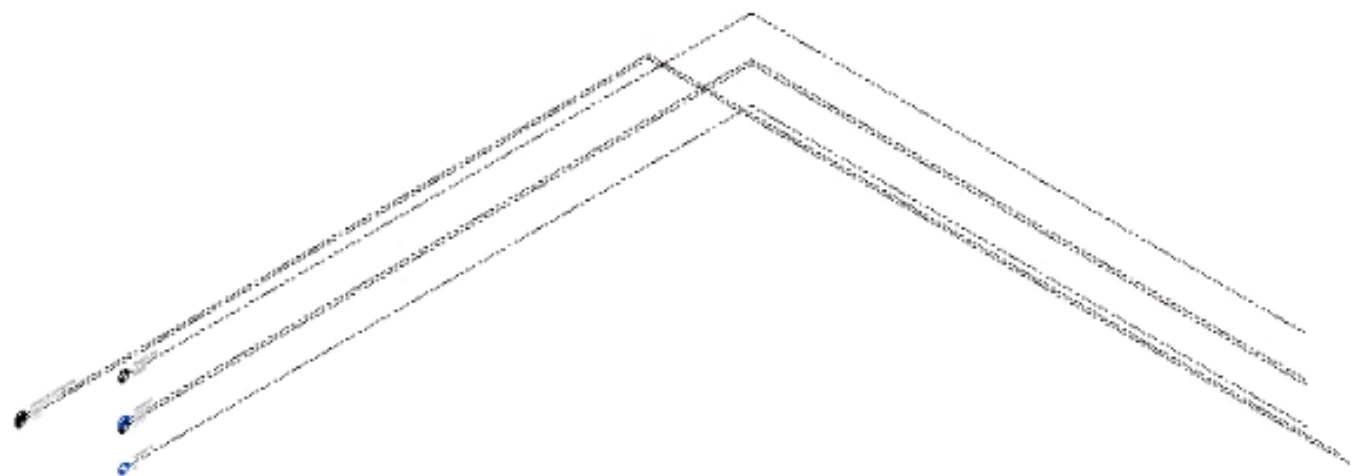


bool

AUTO



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8

MultipleInputForm++ (from data shapes)



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🔍 MULTIPLE INPUT FORM++

- d/s UI.MultipleInputForm
- d/s UI.MultipleInputForm ++
- d/s UI.DataTable input
- d/s UI.RadioButton Data
- d/s UI.MultiLineTextBox Data
- d/s UI.SelectPointsOnFace data
- d/s UI.ConditionalInput Data
- d/s UI.FilePath Data

Create a form with multiple inputs.
see www.data-shapes.net for
tutorials and infos!



INPUT
none

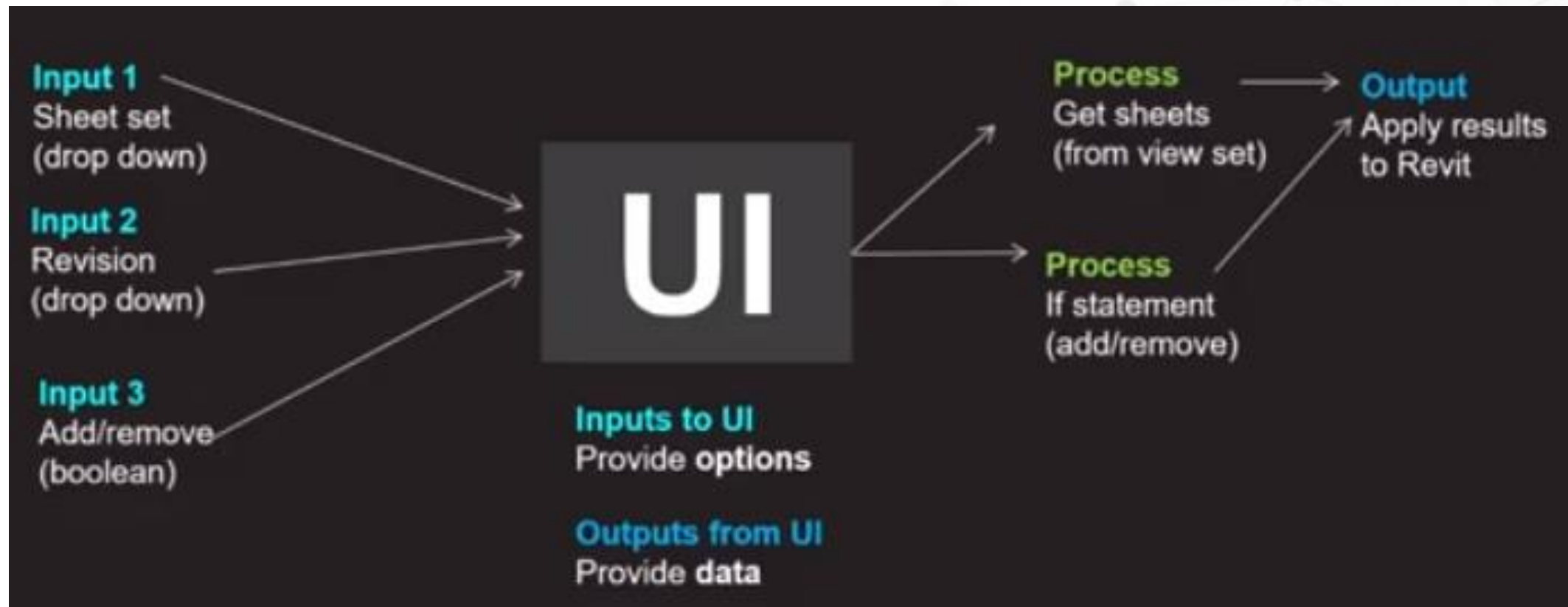
OUTPUT
none



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UI.MultipleInputForm ++	
Description_optional	>
Logo_optional	>
ButtonText_optional	>
Inputs	>
Toggle	>
LinkToHelp_optional	>
CancelButtonText_optional	>
MaxHeight_optional	>
Width_optional	>
User Inputs	
Was Run	
Was Cancelled	
AUTO	





Data-Shapes | Multi Input UI ++

Sunlight Hours

EPW File path

Elements for Obstruction

Sensor Family

Month 6


Day 21

Start Time (24h) 9

End Time (24h) 15

Sun Throw 40000l

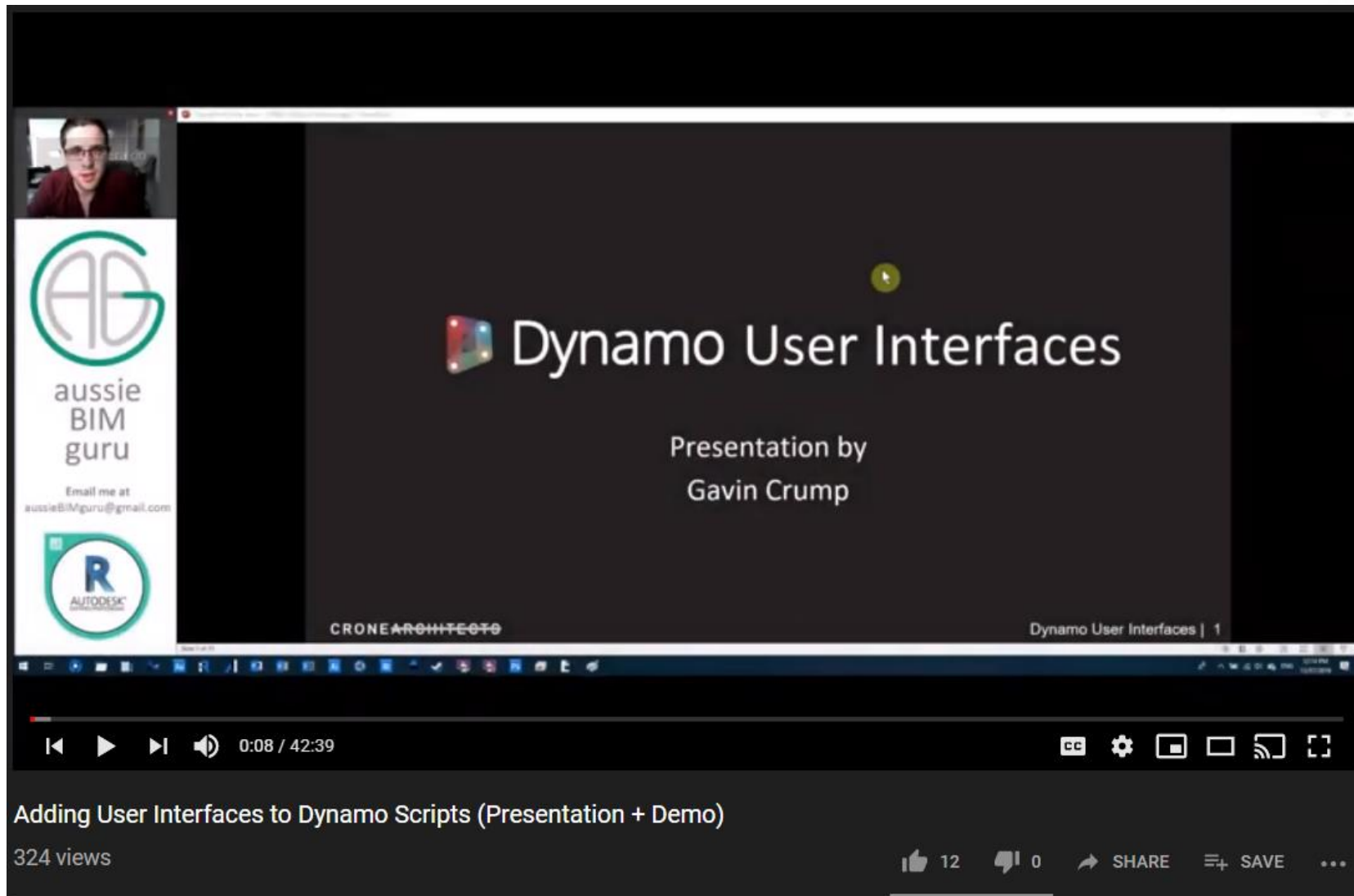
North Angle (CCW)

 **DYNAMITE**


[Help](#)




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The image shows a YouTube video player interface. The video content is a presentation titled "Dynamo User Interfaces" by Gavin Crump. The presentation slide is dark with the title in white. On the left side of the video frame, there is a vertical sidebar containing the "aussie BIM guru" logo (a green circle with "AG" inside), the text "aussie BIM guru", the email "Email me at aussieBIMguru@gmail.com", and the Autodesk logo. The video player includes a small video thumbnail of the presenter in the top left corner, a progress bar at the bottom showing 0:08 / 42:39, and standard YouTube controls like play, volume, and settings. The video title "Adding User Interfaces to Dynamo Scripts (Presentation + Demo)" and view count "324 views" are displayed below the player.

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Dynamo User Interfaces

Presentation by
Gavin Crump

CRONEARCHITECTS

Dynamo User Interfaces | 1

0:08 / 42:39

Adding User Interfaces to Dynamo Scripts (Presentation + Demo)

324 views

12 0 SHARE SAVE ...



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7

Sort.ByKey
+ Sort.ByFunction



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by key

- SortByKey
- GroupByKey
- FilterByKey
- MaximumItemByKey
- MinimumItemByKey
- SortGroupByKey
- SummationByKey
- List.JoinByKey

Sort list based on its keys

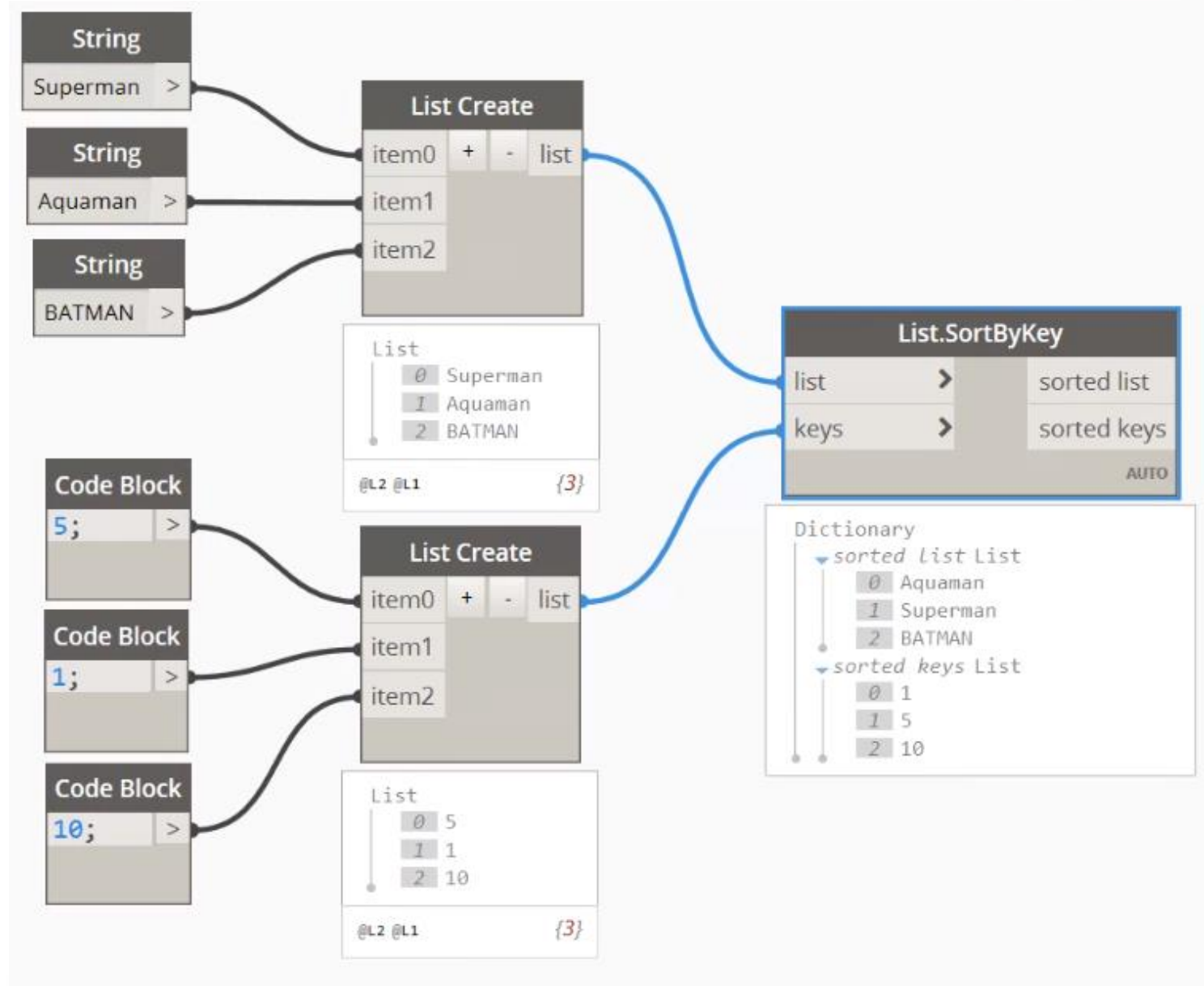


INPUT
list : var[]..[]
keys : var[]..[]

OUTPUT
var[]..[]



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6

String.Contains
List.Contains



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contains



Contains



Contains



Uniqueltems



Reverse



Deconstruct



Chop



OfRepeatedItem



RandomList

Determines if the given string contains the given substring.

abcd
▲

INPUT

str : string
searchFor : string
ignoreCase : bool

OUTPUT

bool



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contains

- Contains
- Contains
- Uniqueltems
- Reverse
- Deconstruct
- Chop
- OfRepeatedItem
- RandomList

Determines if the given list contains the given item. This function searches through the sublists contained in it.



INPUT

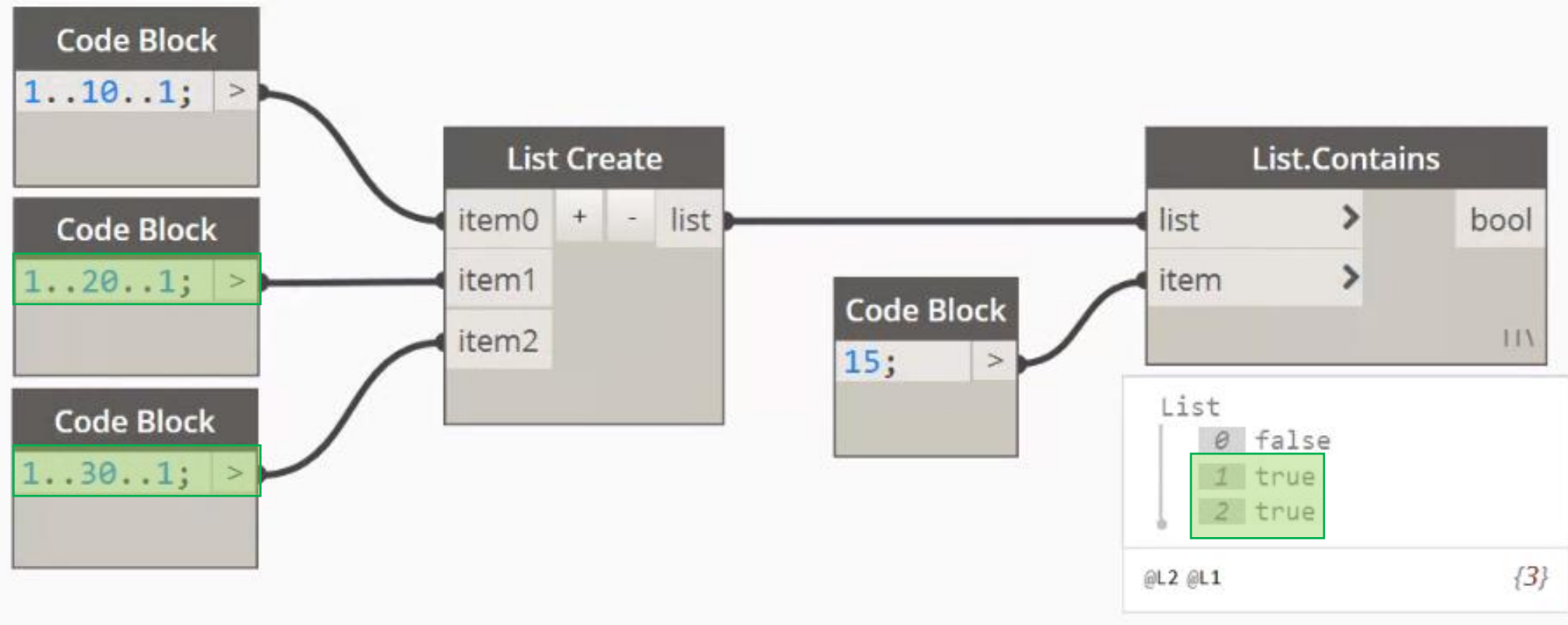
list : var[]..[]
item : var[]..[]

OUTPUT

bool



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5

Get/Set Parameter Value



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get parameter value



Value



SetValue



GetValue



SetValue



GetParameterValueByName



FilterByParameterValue



SetValueToElementId



GetParameterAsString

Get the value of one of the element's parameters.



12.3

INPUT

element : Element

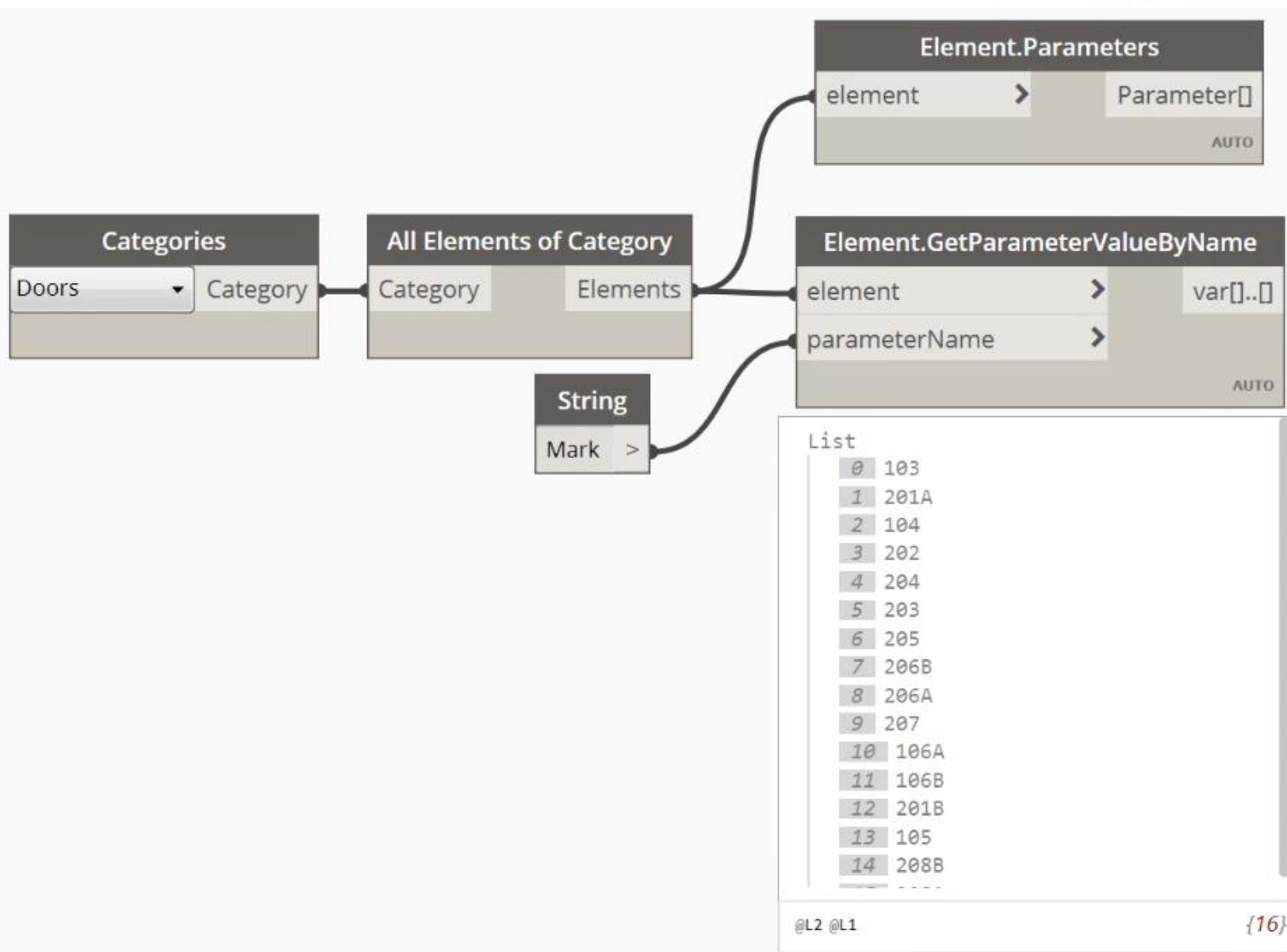
parameterName : string

OUTPUT

var[]..[]



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set parameter value by name



SetValue



SetParameterByName



GetParameterValueByName



SetValueToElementId



GetParameterValueByName



Element.GetInstanceOrTypeParameter



Collect Elements by Parameter Value



Set Active Family Parameter By Name

Set one of the element's parameters.



INPUT

element : Element

parameterName : string

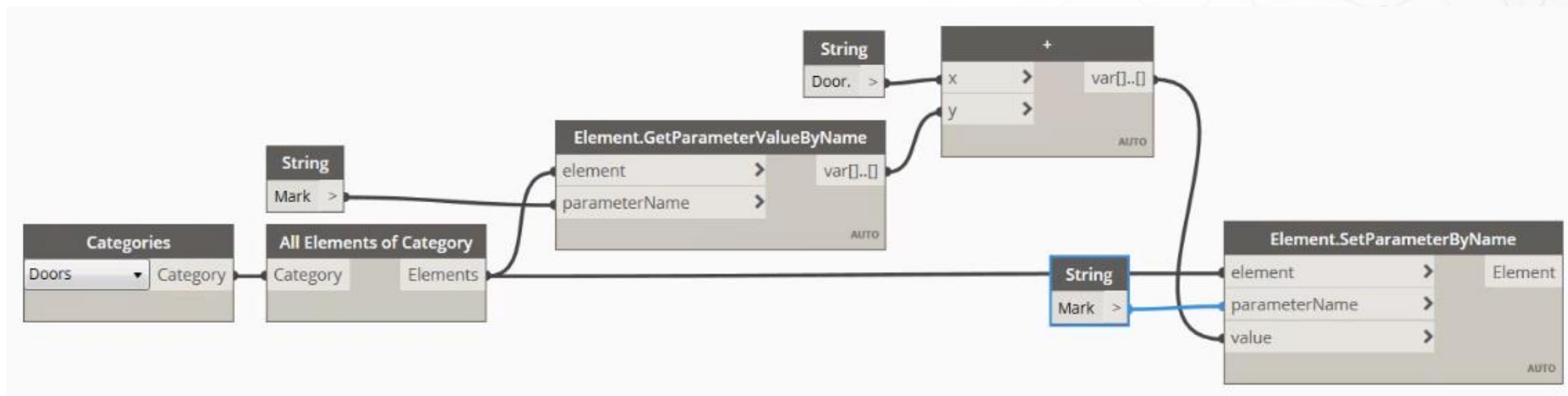
value : var

OUTPUT

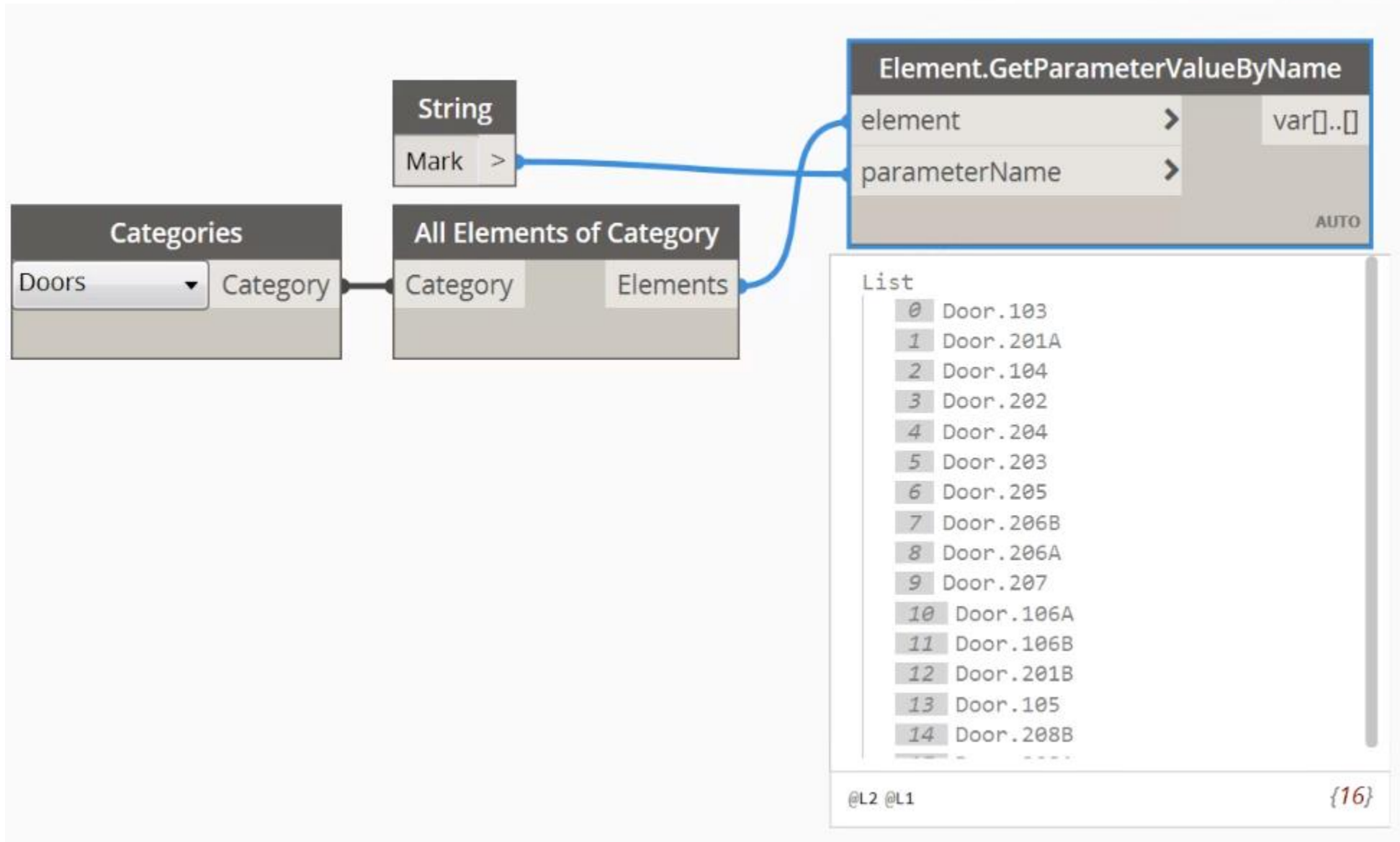
Element



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Learn Dynamo Lesson 6

0:08 / 26:28

Learn Dynamo - Lesson 6: Working with Revit Data

88 views

3 0 SHARE SAVE ...




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4


Import/Export.Excel (+ Bumblebee)





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 ImportExcel


 ExportExcel


 Name

 Name

 ByFilePath

 Worksheets

 Worksheet

 Read Excel

Read data from a Microsoft Excel spreadsheet. Data is read by row and returned in a series of lists by row. Rows and columns are zero-indexed; for example, the value in cell A4 will be returned as the data list as

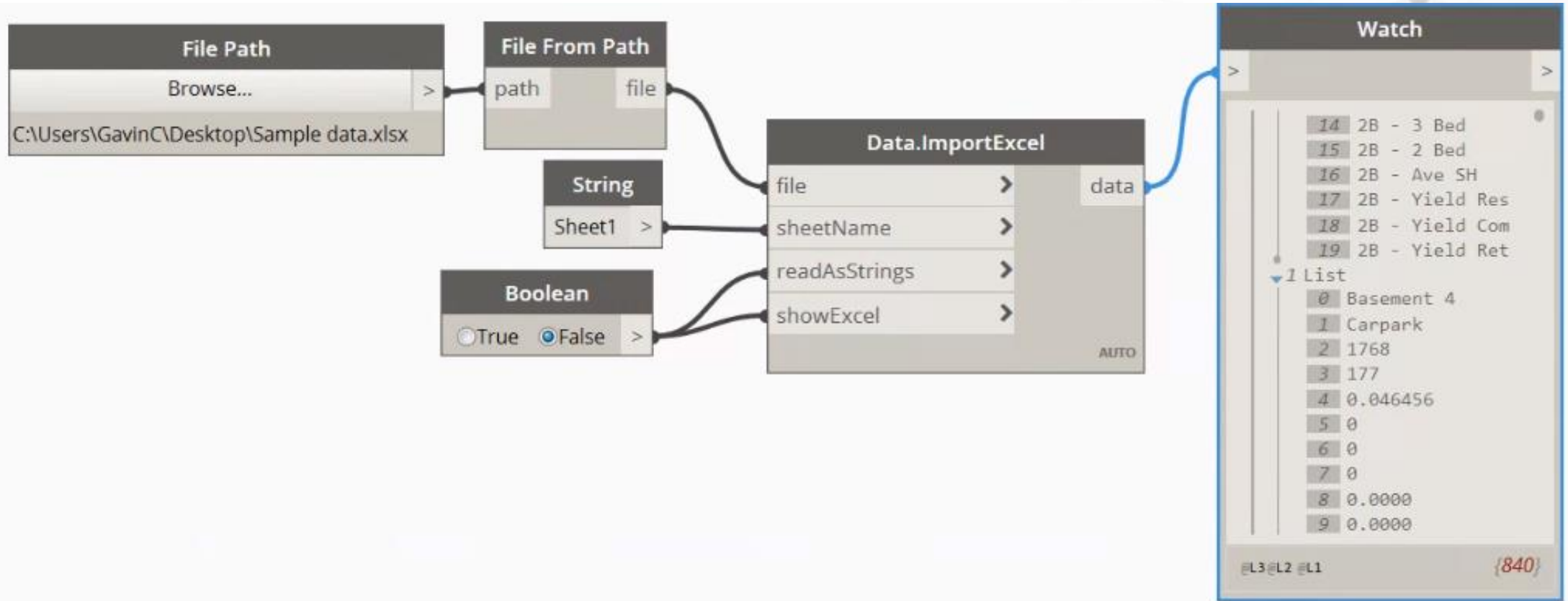
INPUT

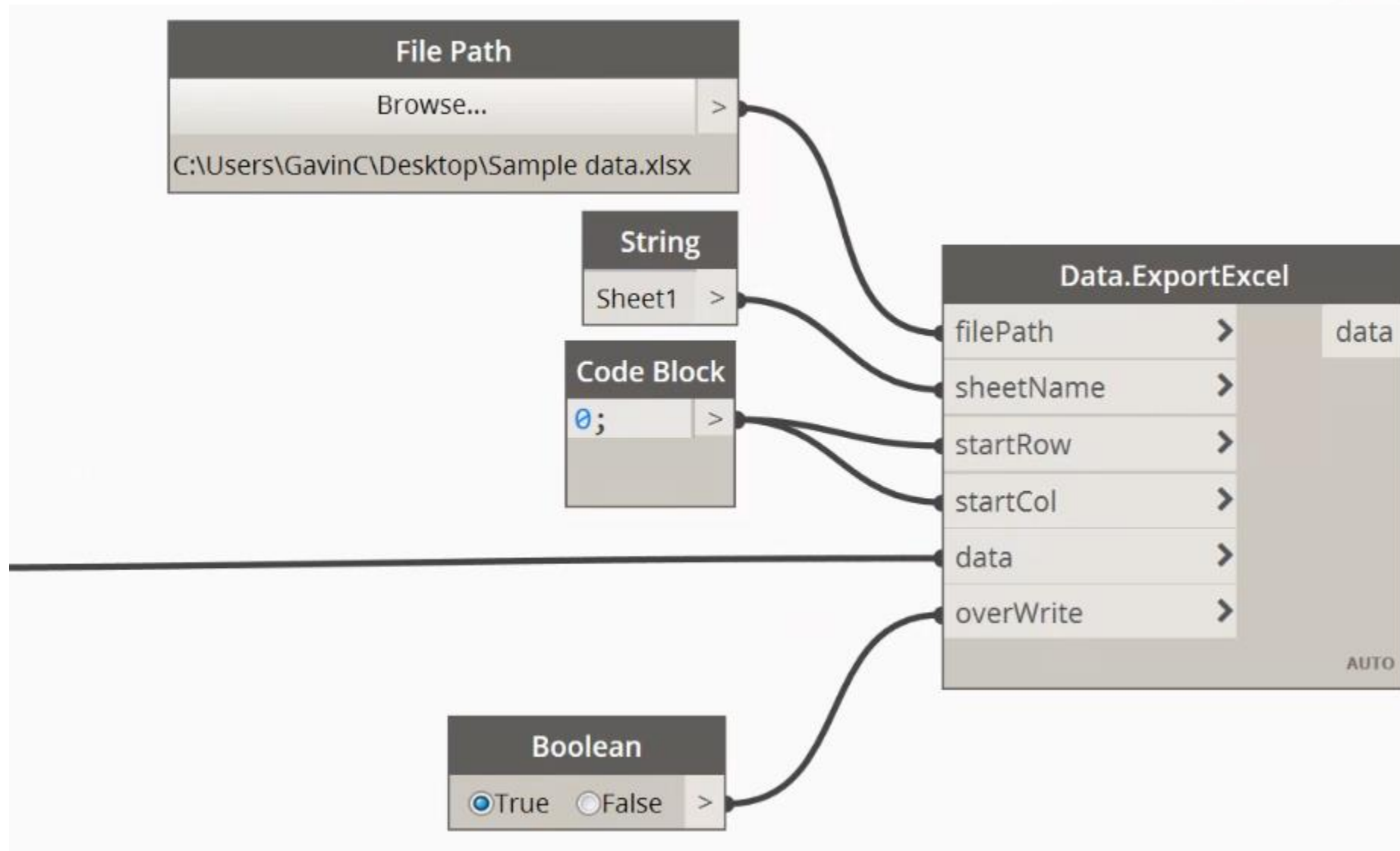
file : var
sheetName : string
readAsStrings : bool
showExcel : bool

OUTPUT

var[]







3

List.Map



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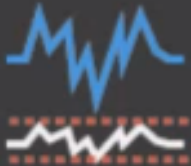
map

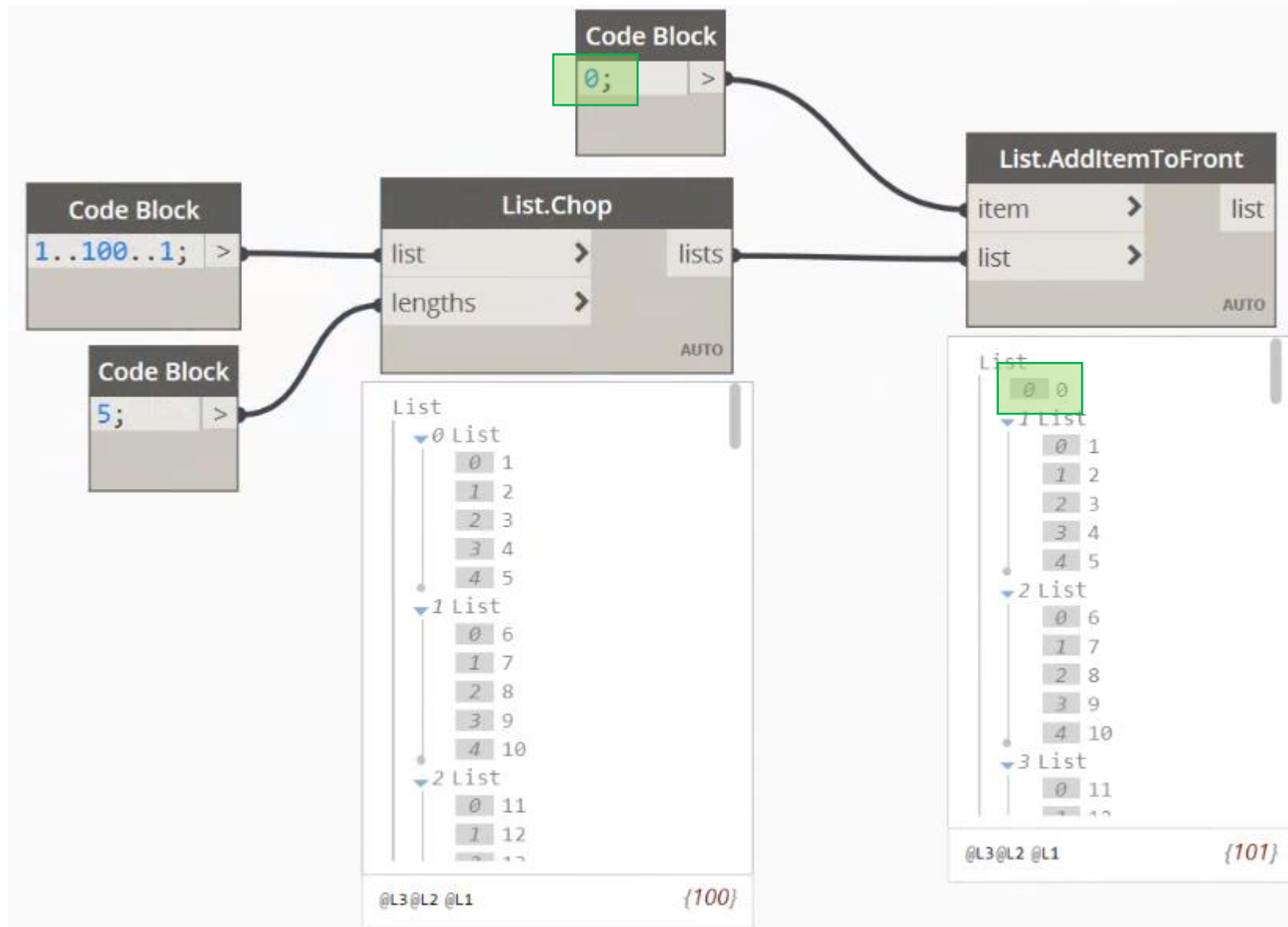
- ByKeysValues
- Map
- MapTo
- List.Scan
- Pixels
- List.Map
- RemapRange
- List.Combine

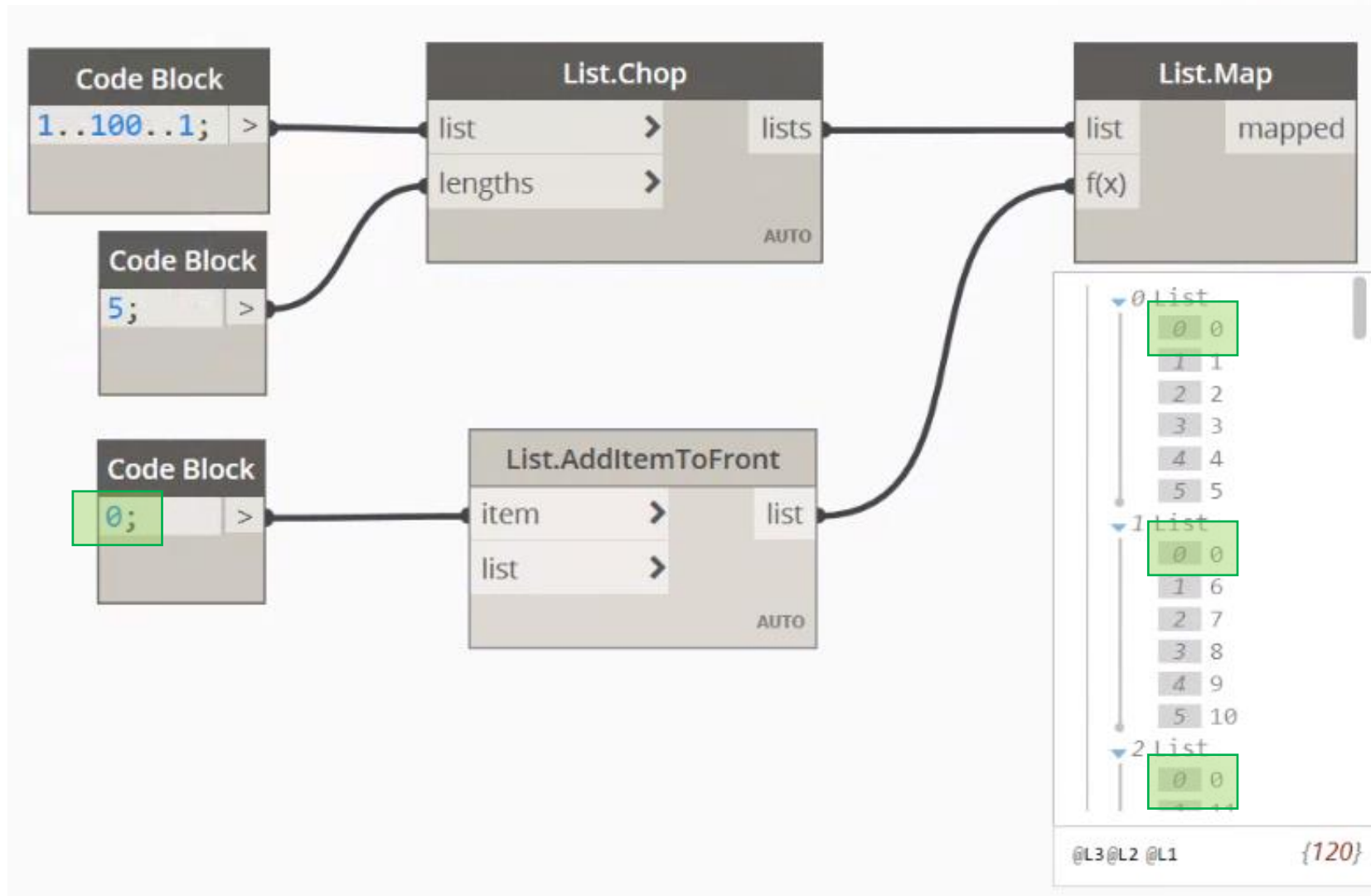
Applies a function over all elements of a list, generating a new list from the results.

INPUT
none

OUTPUT
none







2

Logic.If (from Zebra)

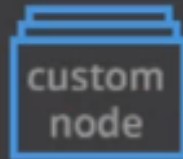


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if

- Difference
- Logic.If
- Parse IFC File
- IFC File Type
- Read From IFC
- Export IFC
- SettingByName
- ByDateDifference

Retains the old status of the previous built-in IF node.



INPUT
none

OUTPUT
none

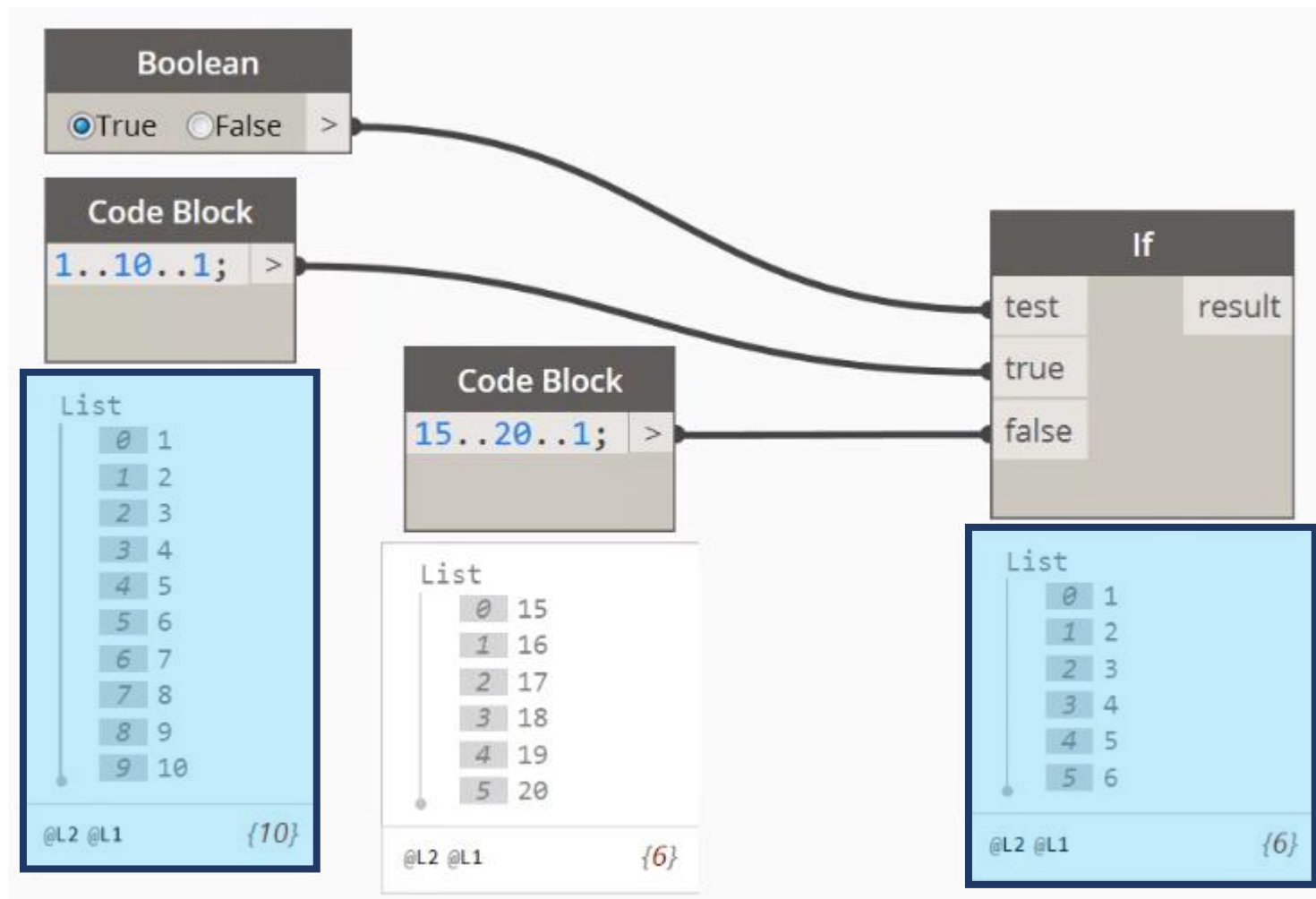


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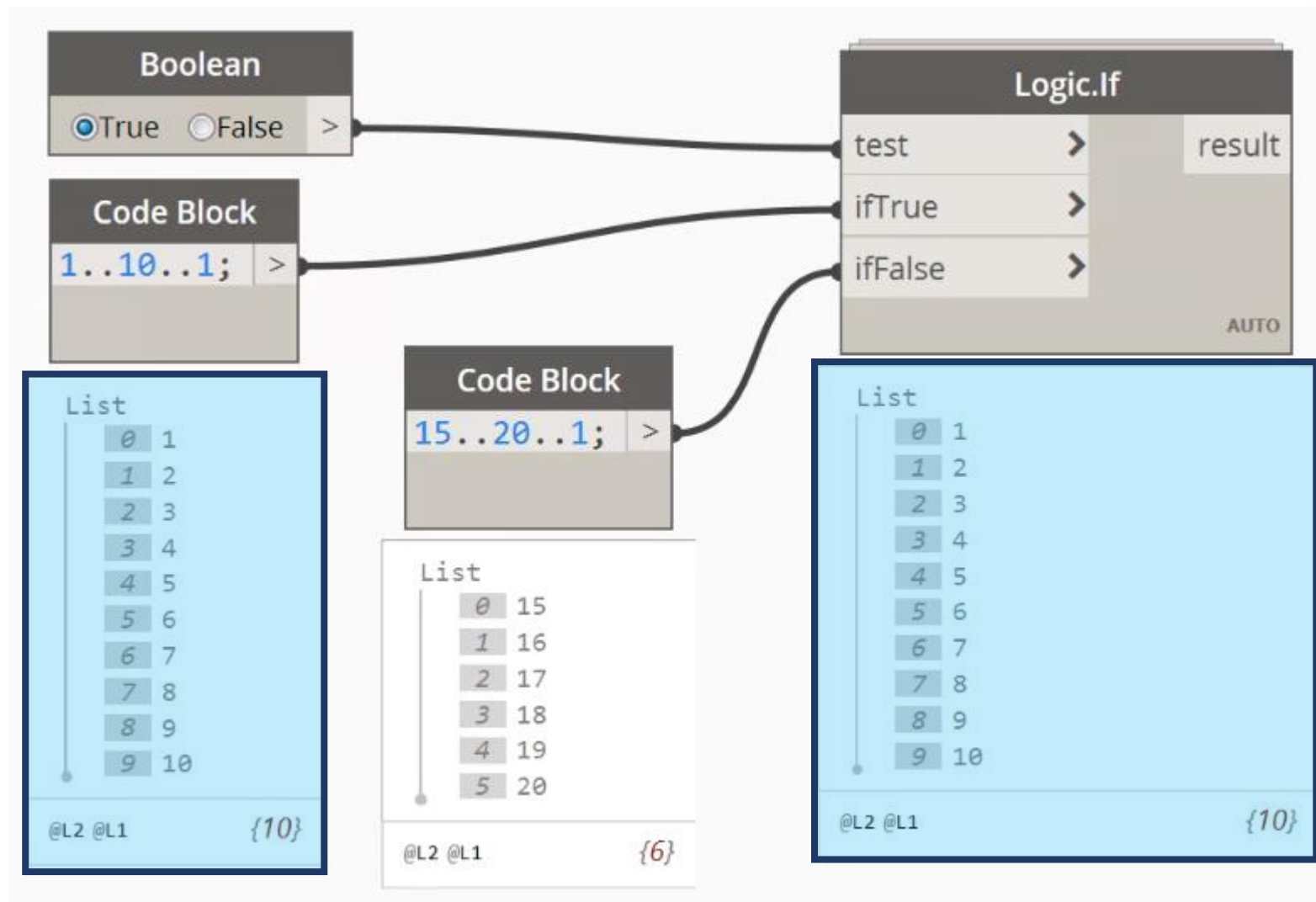
If(**condition**, do **this**, do **that**)

If **condition** is true,
Do **this**, otherwise,
Do **that**





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1

Filter by Boolean Mask




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Search: boo

- Boolean
- ByUnion
- FilterByBoolMask**
- BooleanUnion
- Boolean to Int
- UI.Boolean input
- ByFilePath
- Worksheets

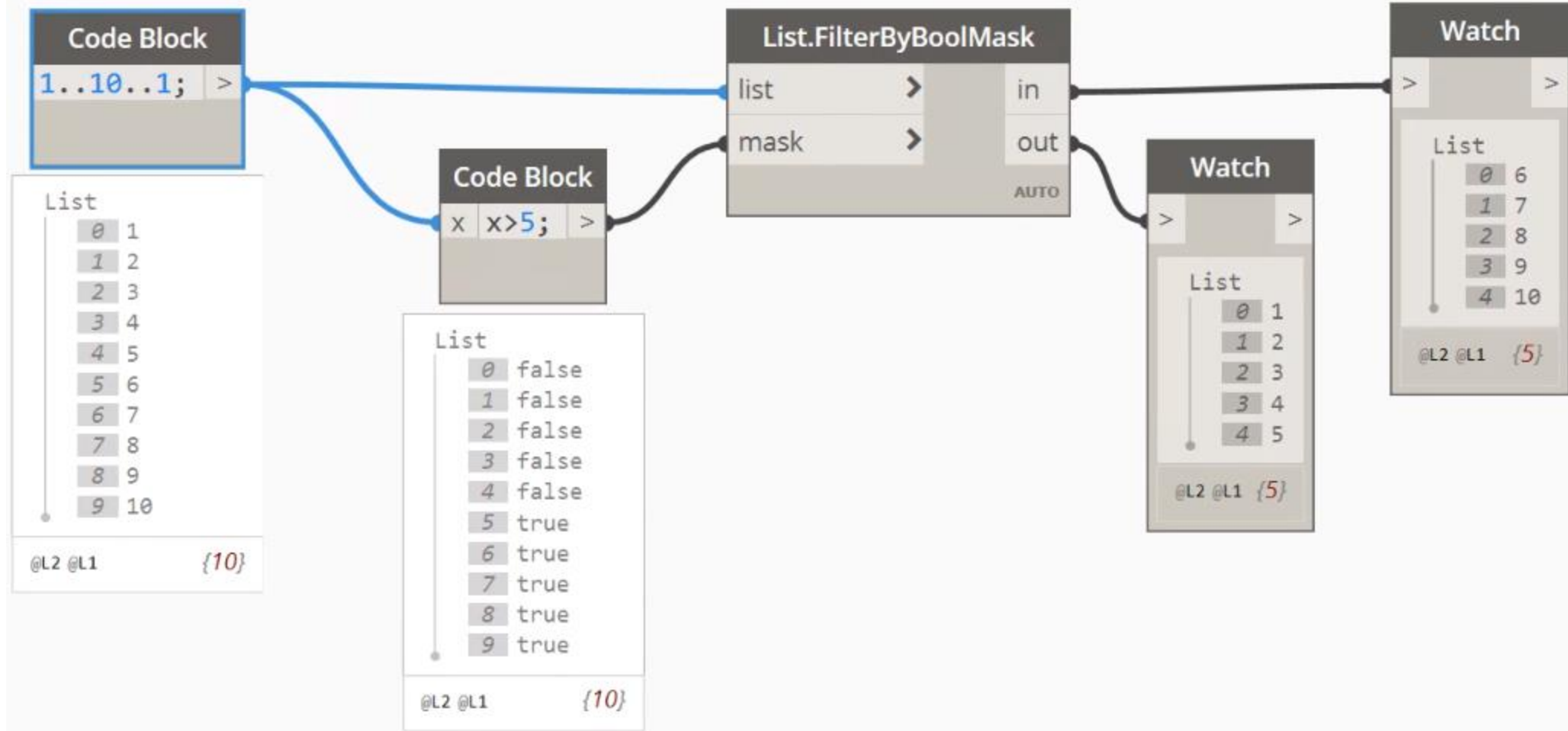
Filters a sequence by looking up corresponding indices in a separate list of booleans.



INPUT
list : var[]..[]
mask : var[]..[]

OUTPUT
var[]..[]





Thanks for watching

Do you agree?

**Let me know in the comments which
other nodes you like!**



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My Top 10
Dynamo Nodes!