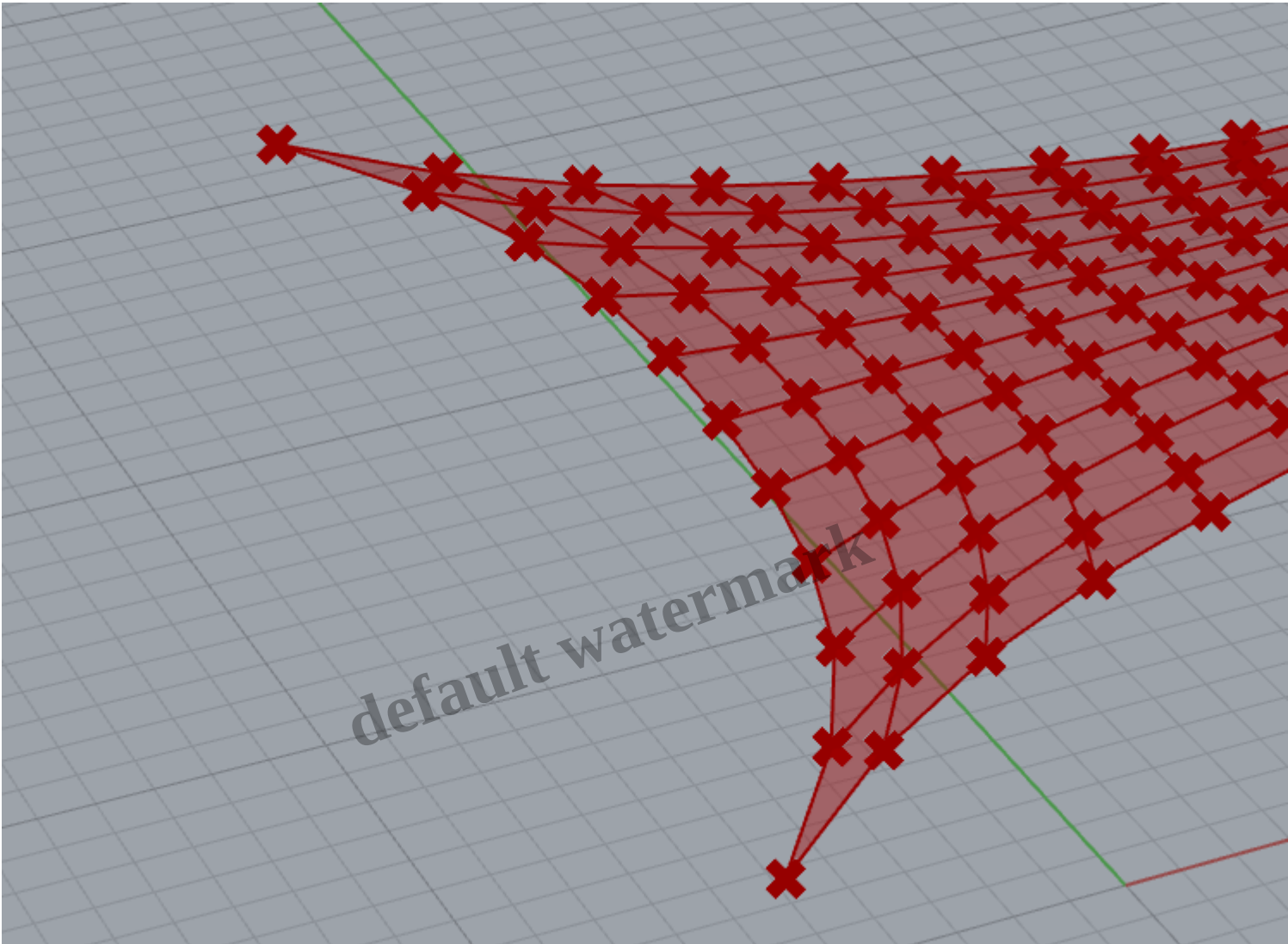
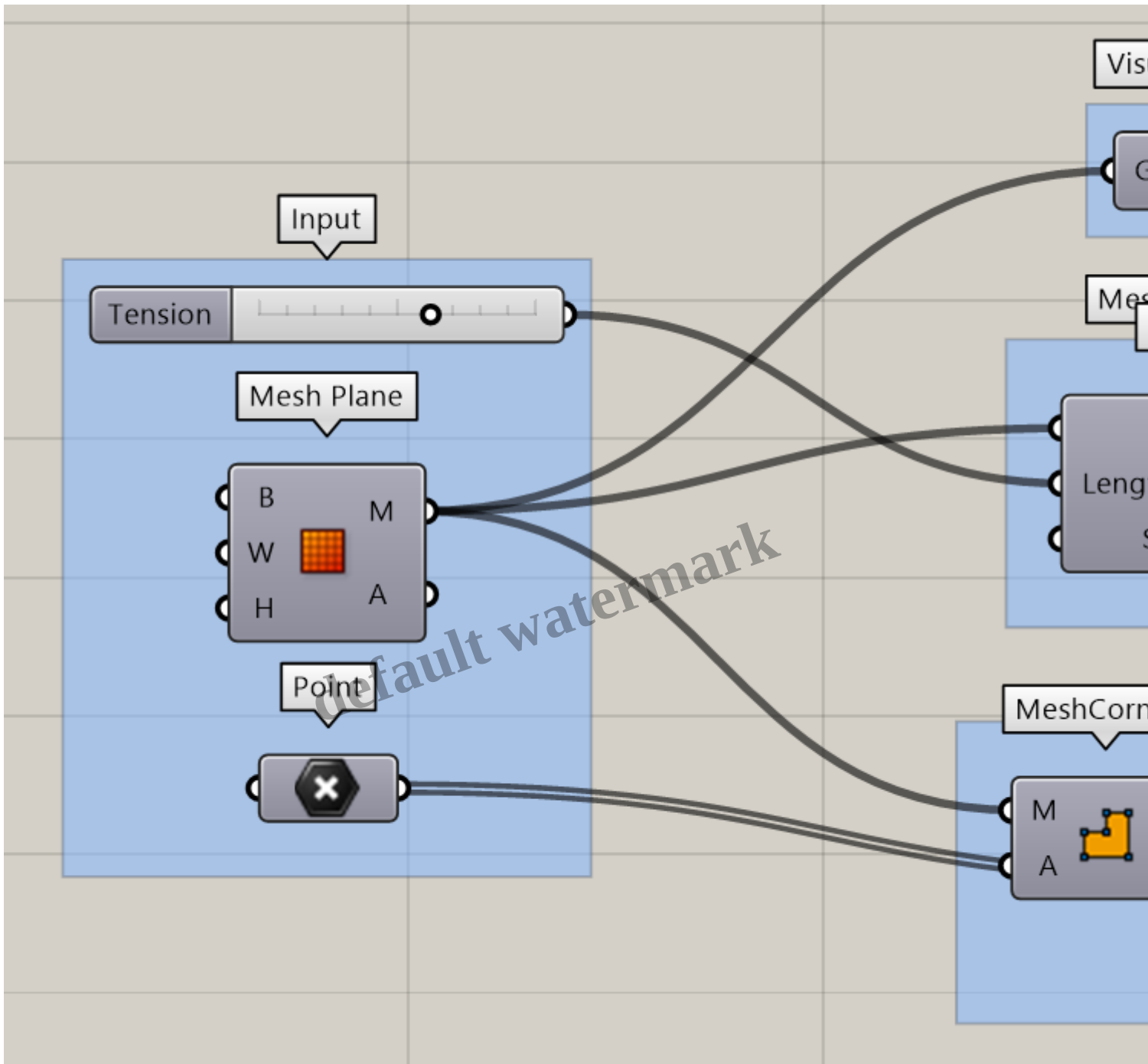
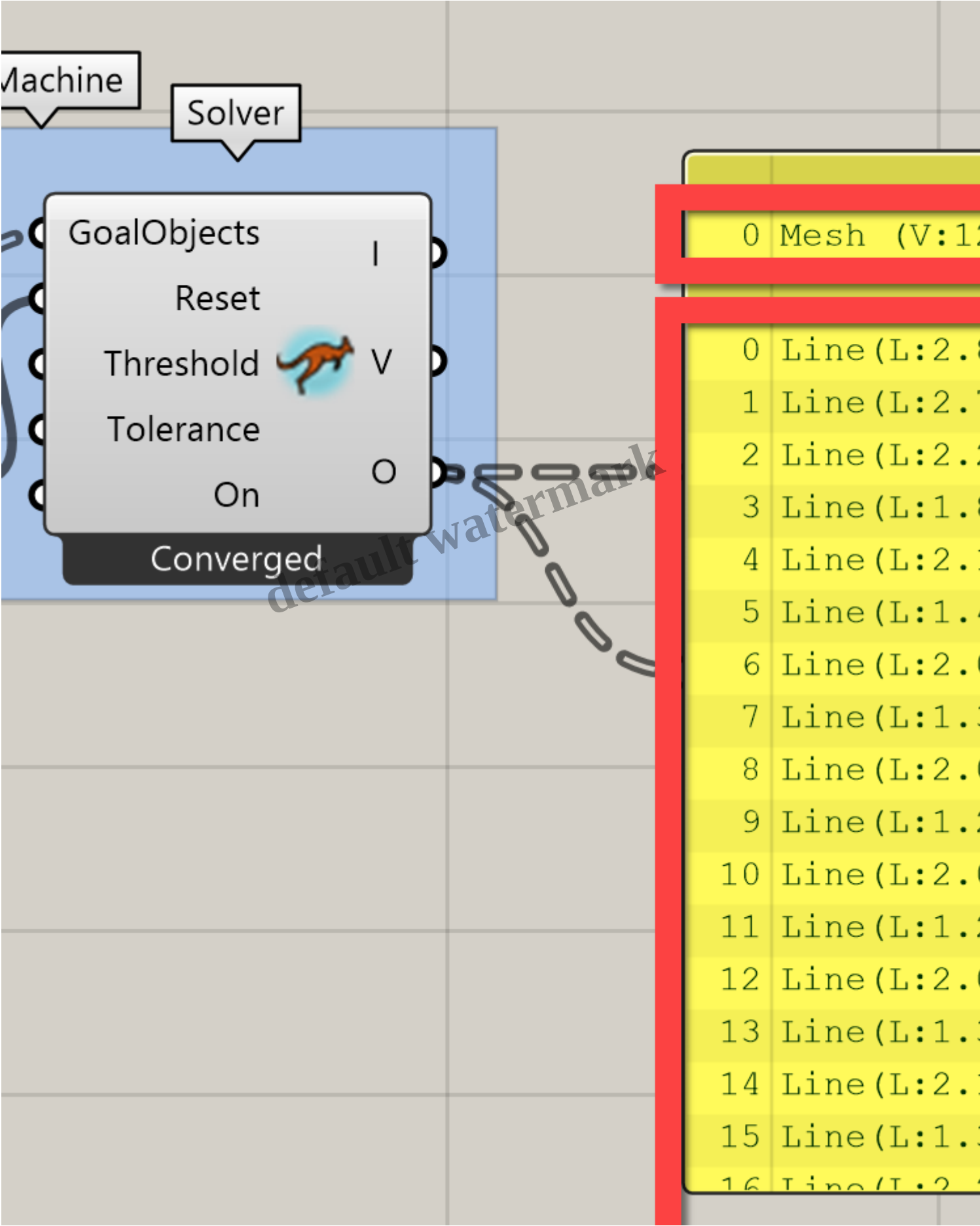


Let's look at a situation that comes up with *Kangaroo*:





Let's say we want to retrieve the resulting mesh for further work. A panel shows that we have mixed output:

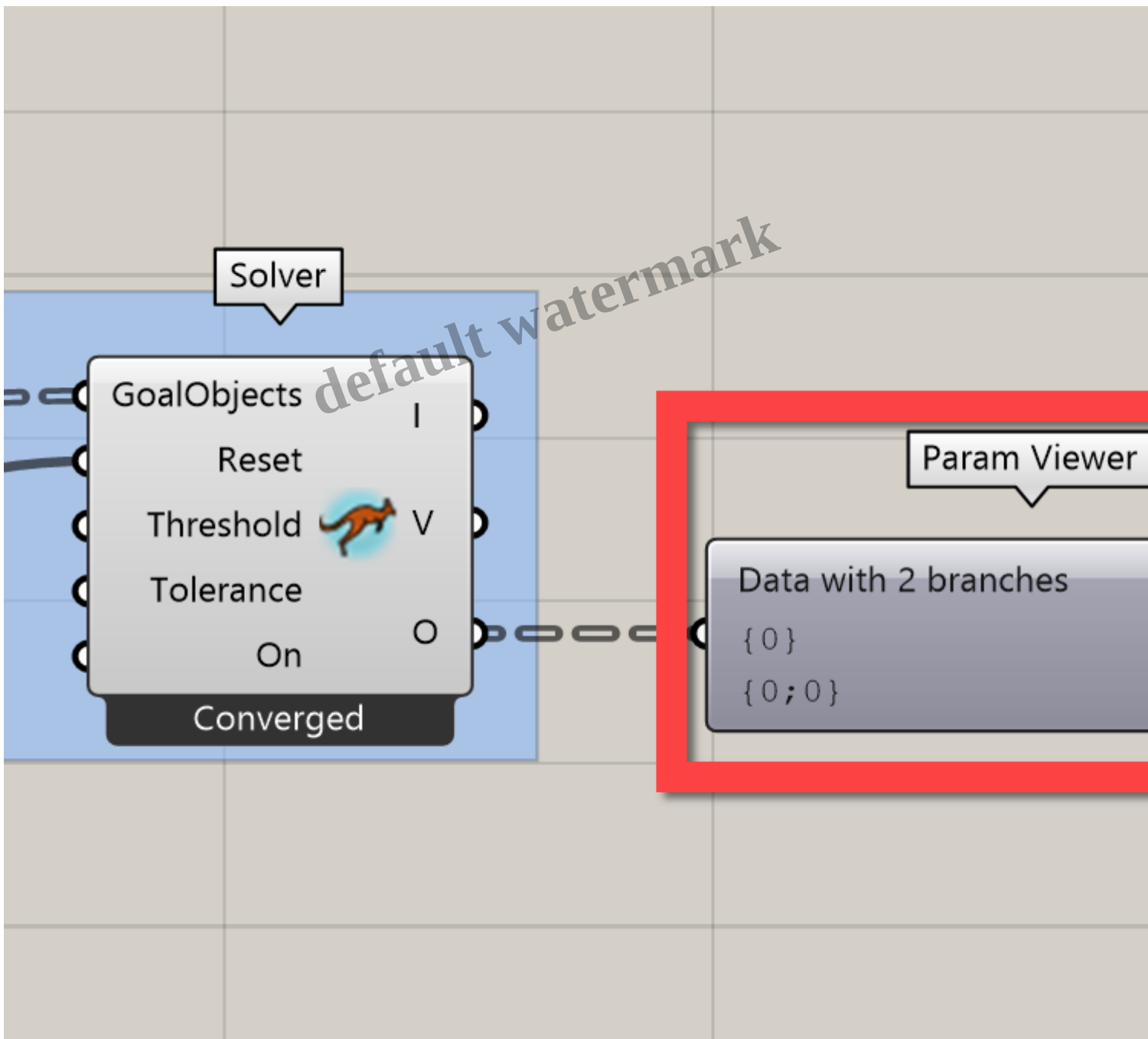


A *Param Viewer* component tells us exactly how many paths and items we've got here. OK – but how do we get hold of the first path {0}?

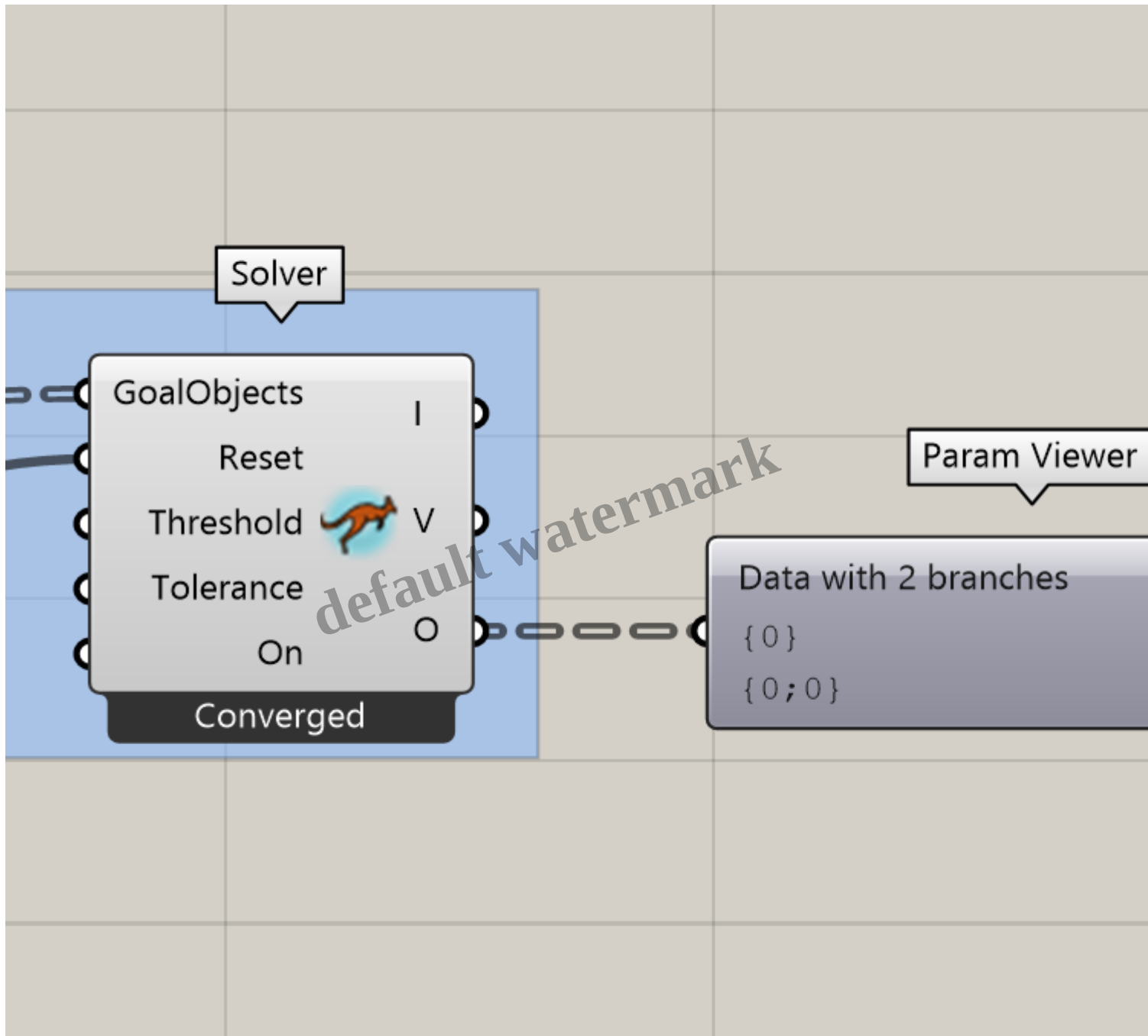
Again: A *Tree Branch* fed with a panelled {0} input [would do](#) – but this time we want to use a *List Item* component.

But of course, *List* and *Cull* components are made for lists, not for trees. So we have to use a kind of trick.

As you see a *Param Viewer* has been connected to our mixed output:

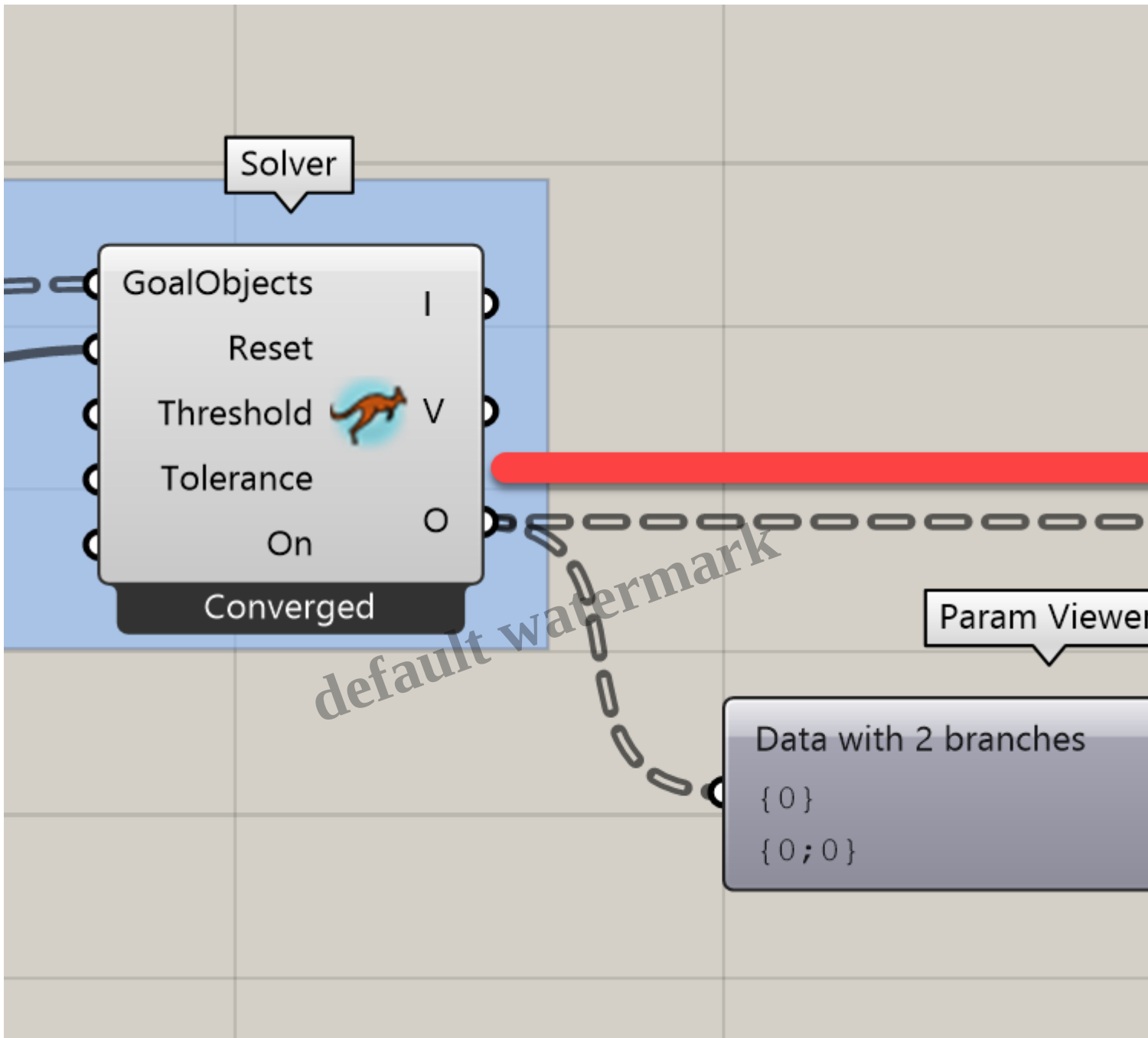


Since our plan is to extract the mesh – which is in $\{0\}$ – get a *List Item* and connect it to *Param Viewer*'s output:



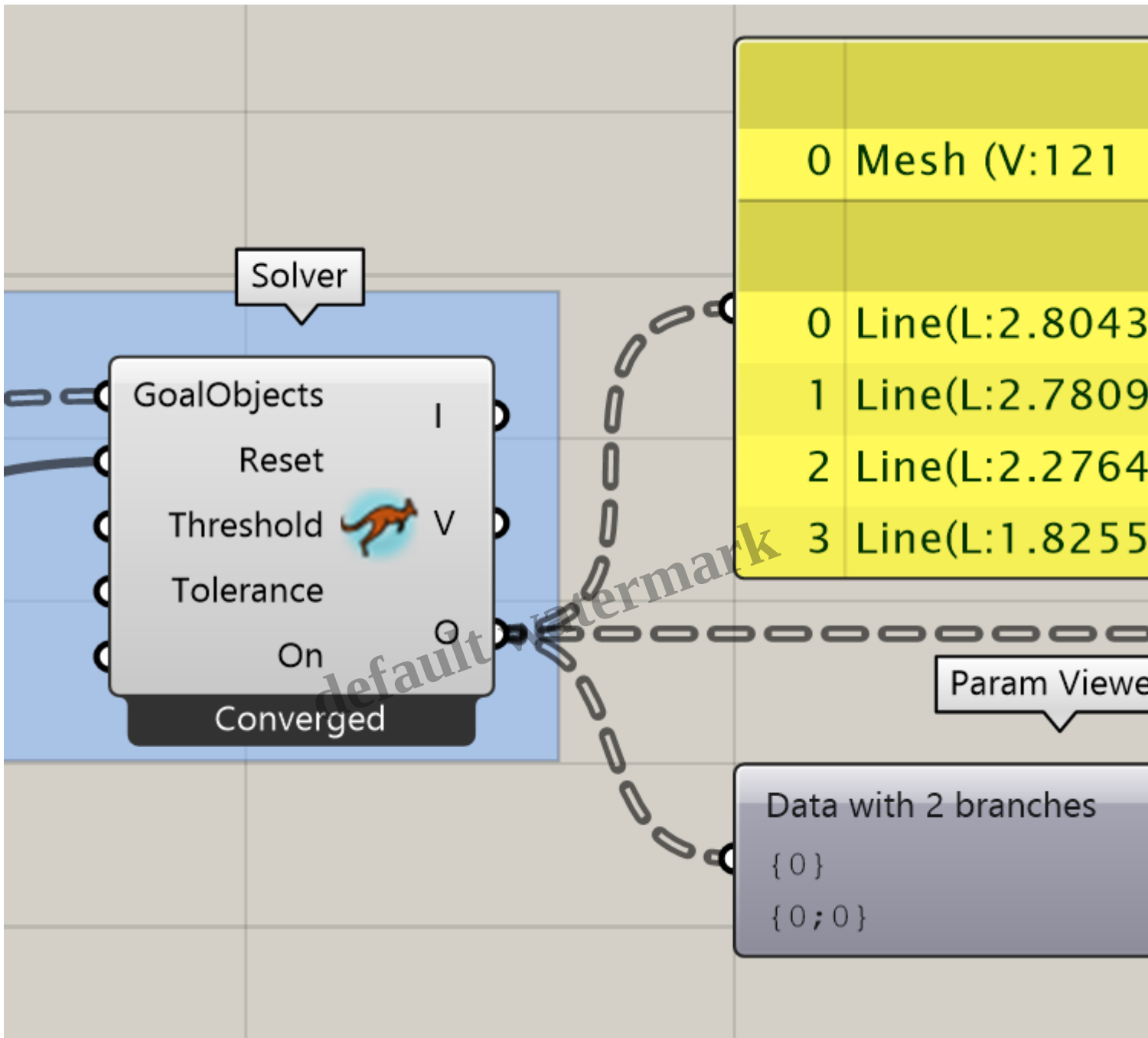
List Item's default output is 0 , meaning that – if our plan succeeds – it will pull our mesh. That's fine, but there's some more to do.

Pick a *Tree Branch* component and connect it to *Kangaroo Solver*'s output:



Tree Branch wants to know which path it's supposed to extract for you (*P?*) – this is the place where we put in a path *name*, [described in this article](#).

In this revised and more universal approach we connect *P* with our *List Item*'s output *i*:



That's it – Using *Param Viewer* before and *Tree Branch* after *List Item* basically helped to extract a data tree path just like a normal list item.

I haven't tested it altogether – but it seems that this way you can apply all of Grasshopper's *list* and *cull* items on paths.

For a good introduction on Grasshopper's Data Trees read [this page from TU Delft](#).

New to Grasshopper? [I suggest you read this article in the first place](#).

Need more learning resources? [Check this out.](#)

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Category

1. Rhino/Grasshopper

Tags

1. Data Tree
2. Parametric Modeling

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