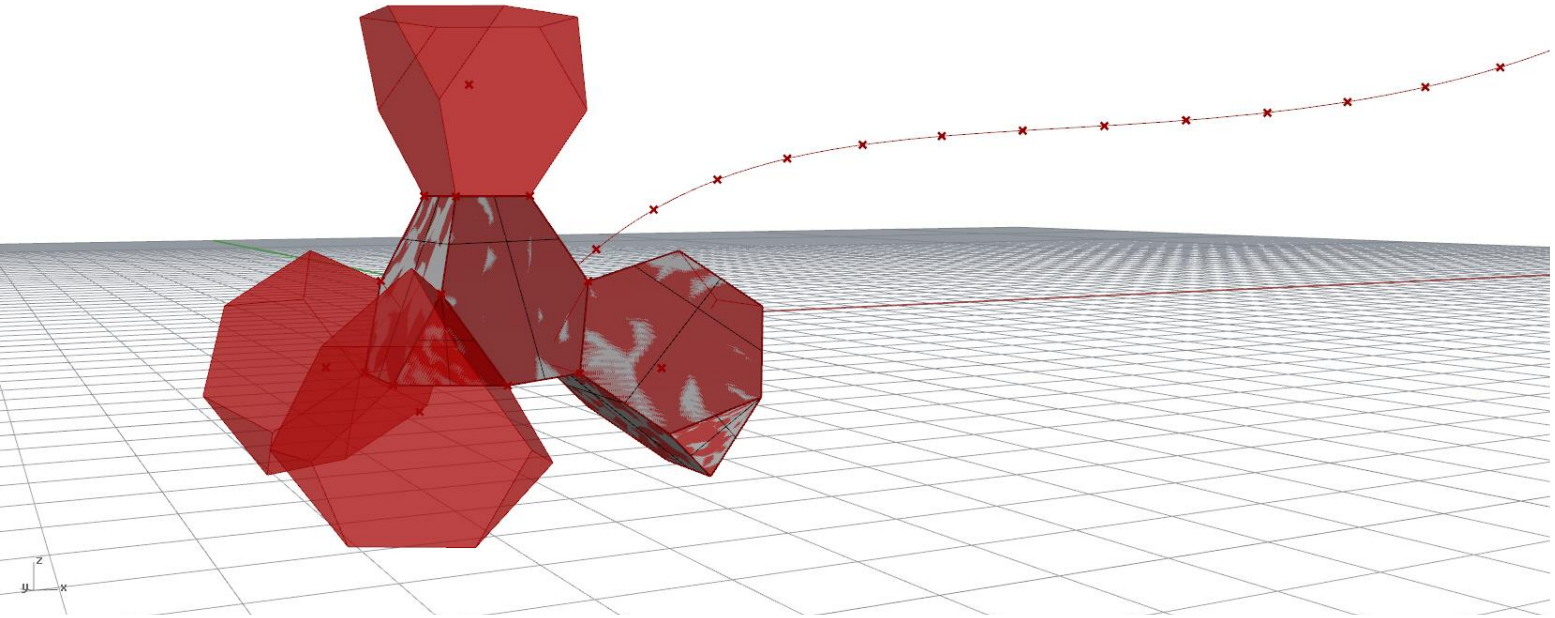
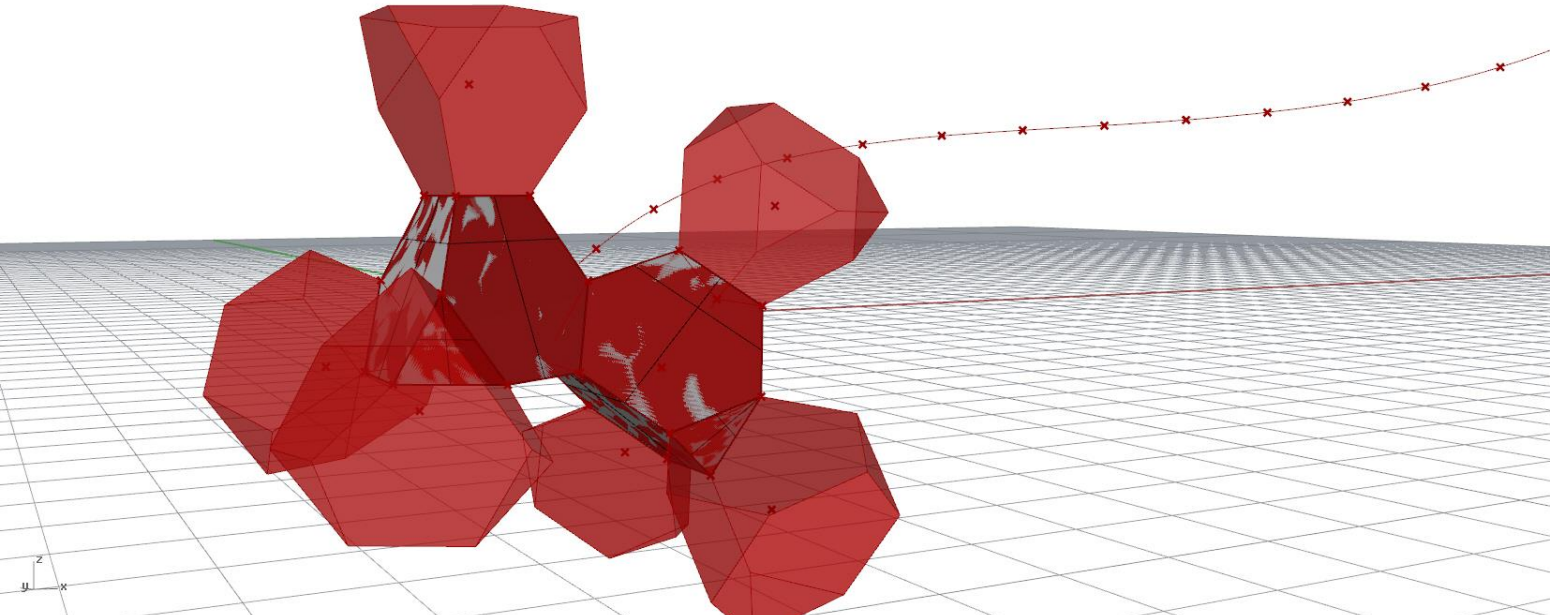
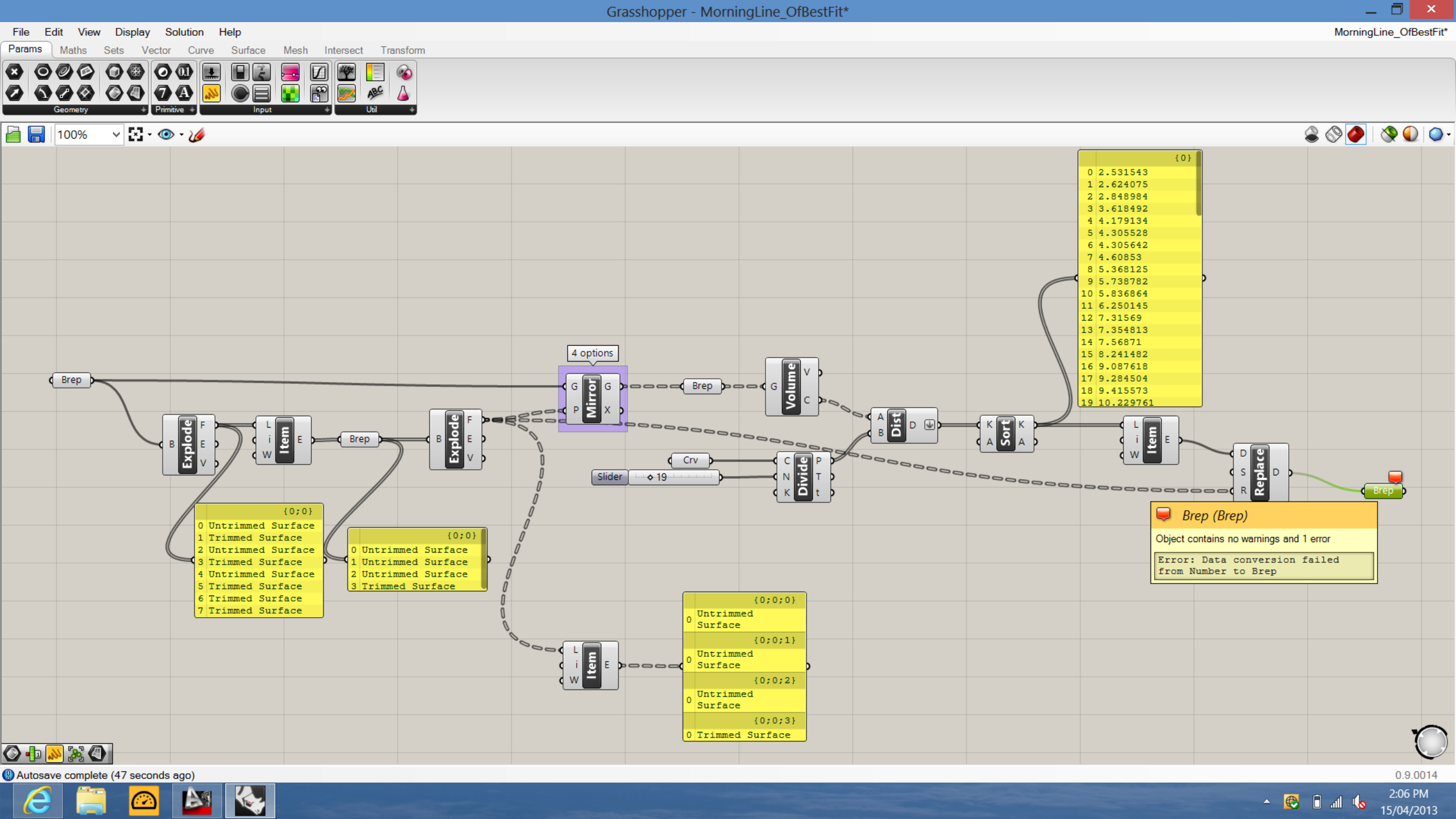


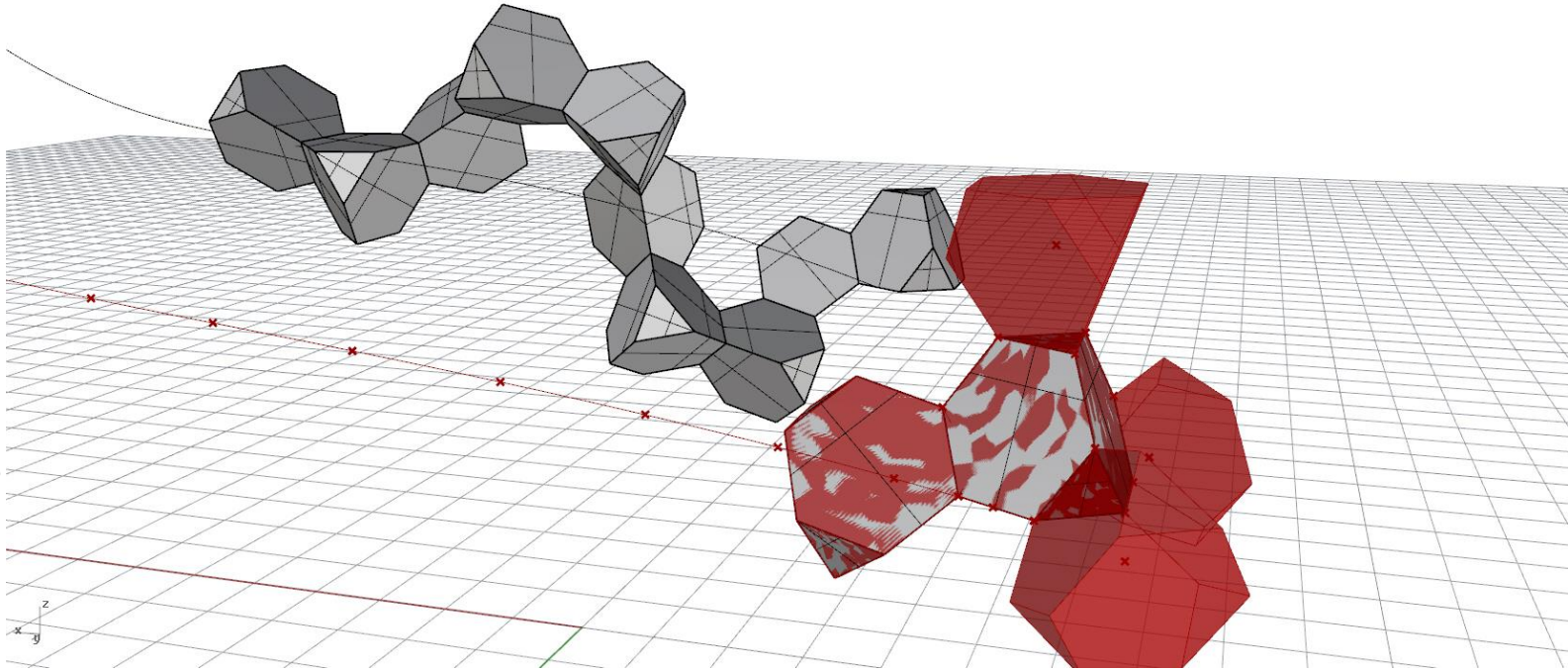
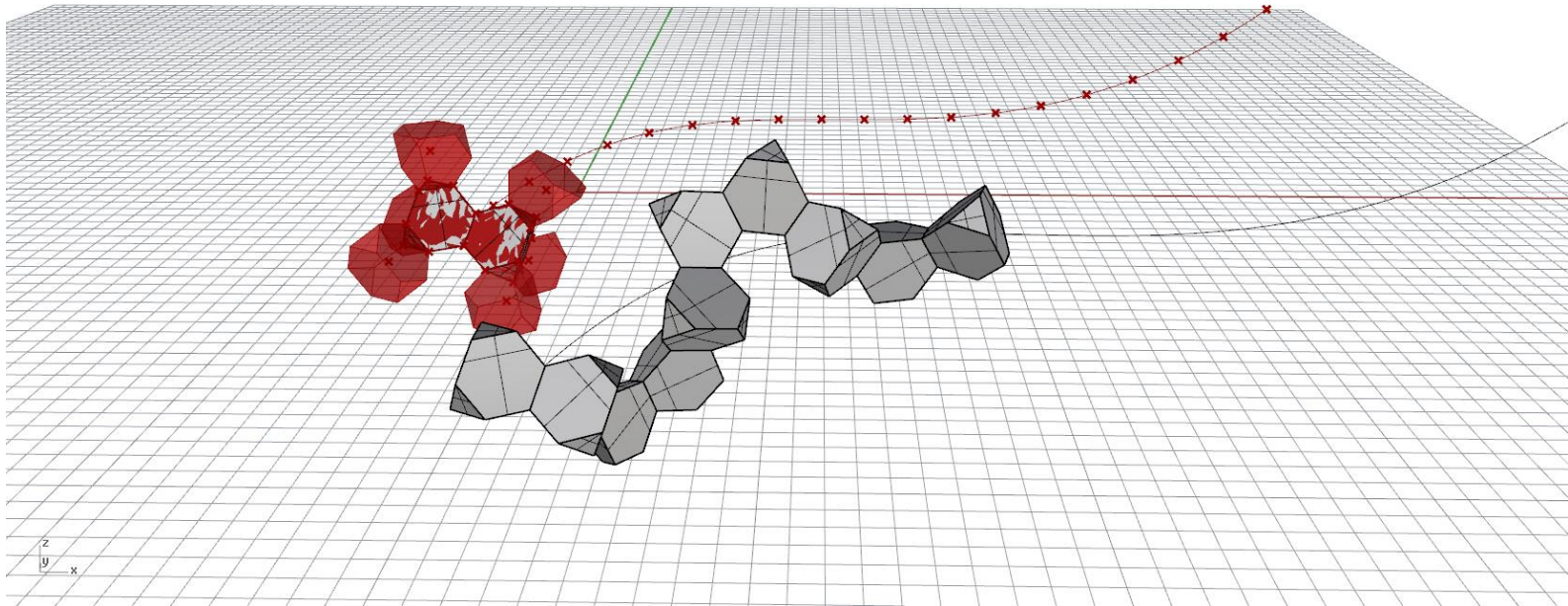


I am trying to establish a process that joins truncated tetrahedrons in a chain that will roughly follow a line that I specify and can later update.

I plan to do this by analysing the four mirrored shapes (see left) as options for continuing the chain. I will do this by finding the ‘mirrored option’ whose centroid is closest to a point on the divided curve that I specify. The closest option will then be analysed in the same way to continue the chain. I hope to be able to control the chain length by manipulating the number of repetitions of this process.


Grasshopper - MorningLine_OfBestFit*
File Edit View Display Solution Help
MorningLine_OfBestFit*
Params Maths Sets Vector Curve Surface Mesh Intersect Transform
Geometry Primitive Input Util
100%
Brep
Explode
Item
Brep
Explode
4 options
Mirror
Brep
Volume
Dist
Sort
{0}
0 2.531543
1 2.624075
2 2.848984
3 3.618492
4 4.179134
5 4.305528
6 4.305642
7 4.60853
8 5.368125
9 5.738782
10 5.836864
11 6.250145
12 7.31569
13 7.354813
14 7.56871
15 8.241482
16 9.087618
17 9.284504
18 9.415573
19 10.229761
Item
Replace
Brep
Crv
Slider 19
Divide
{0;0}
0 Untrimmed Surface
1 Trimmed Surface
2 Untrimmed Surface
3 Trimmed Surface
4 Untrimmed Surface
5 Trimmed Surface
6 Trimmed Surface
7 Trimmed Surface
{0;0}
0 Untrimmed Surface
1 Untrimmed Surface
2 Untrimmed Surface
3 Trimmed Surface
Item
{0;0;0}
0 Untrimmed Surface
{0;0;1}
0 Untrimmed Surface
{0;0;2}
0 Untrimmed Surface
{0;0;3}
0 Trimmed Surface
Brep (Brep)
Object contains no warnings and 1 error
Error: Data conversion failed from Number to Brep
Autosave complete (47 seconds ago)
0.9.0014
2:06 PM
15/04/2013

This is what I hope it will look like.

I have managed to isolate the closest new geometry from the list of options. The problem is that when I extract this data I cannot use this number to inform my shape (mirror the correct face to produce a new Brep).

Any suggestions would be greatly appreciated!