PsydoCode:

Join passing:

Get Joins List

Filter for Joins that are case 2 in Joins List

Loop over joins List as long there are any joins in it

Find all joins that belongs to the same intersection point (no Z Connection and multiple point connection)

Find endpoint of the bones next to the bridge points

Calculate Intersection of the bridge points

Set the endpoints of the bones to the calculated Intersection

Update list of joins

Join on passing:

Get Joins List

Filter for Joins that are case 0 and 1 in Joins List

Loop over joins list

Find endpoint of the bones next to the bridge points

Set endpoint of the bone that is passing by to the bridgepoint of the continuous bone