Materials&Instruments

1. 25 PVC's 40mm diameter, 1.5m long
2. 1 PVC 110mm diameter 0.88m, long that you will cut in 11 parts 0.08m long each.
3. 1 PVC 40mm diameter, 0.44m long that you will cut in 11 parts 0.04m long each.
4. 55-100 cable ties to connect the elements. You need the minimum amount of 55 cable ties to connect everything but when you do your first setup it's better to have some extra in case you need to change something.
5. A marker pen
6. Something to cut the plastic with. Preferably a professional circular saw.
7. A vise to fix pipes when you will be cutting and drilling.
8. A drill
9. Safety glasses - there will be plastic flying when drilling.

Step 1

In each of 25 PVC's drill 4 holes
 - 2 on both ends 1cm far from the end of a pipe
according to the diameter of cable ties
you are going to use.

1.5m

Step 2

Cut the 0.44m 40mm PVC into 0.04m parts
that will go inside the joint
and will work as stops for the side-PVC's.

Step 3

Mark the 0.88m 110mm PVC pipe
so that it is divided into 11 parts
along the long side (0.08m long each).

Step 4

Mark the 0.88m 110mm PVC pipe
so that every 0.08 segment has 5 points
that will be the centers of the 46mm diameter holes.

Parts that will be drilled out

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Step 5

Drill the 46mm diameter holes in the 110mm PVC pipe. PVC's are relatively flexible so you don't have to be 100% accurate but if you have to choose between 42mm diameter holes and 50mm diameter I suggest you go with 50mm. You will need that extra space to have the right angles and if there there will be less space your structure will be too stiff and can eventually break and/or harm someone when you will be trying to force it to hold. After all holes are drilled you can cut the pipe into 11 0.08m parts.