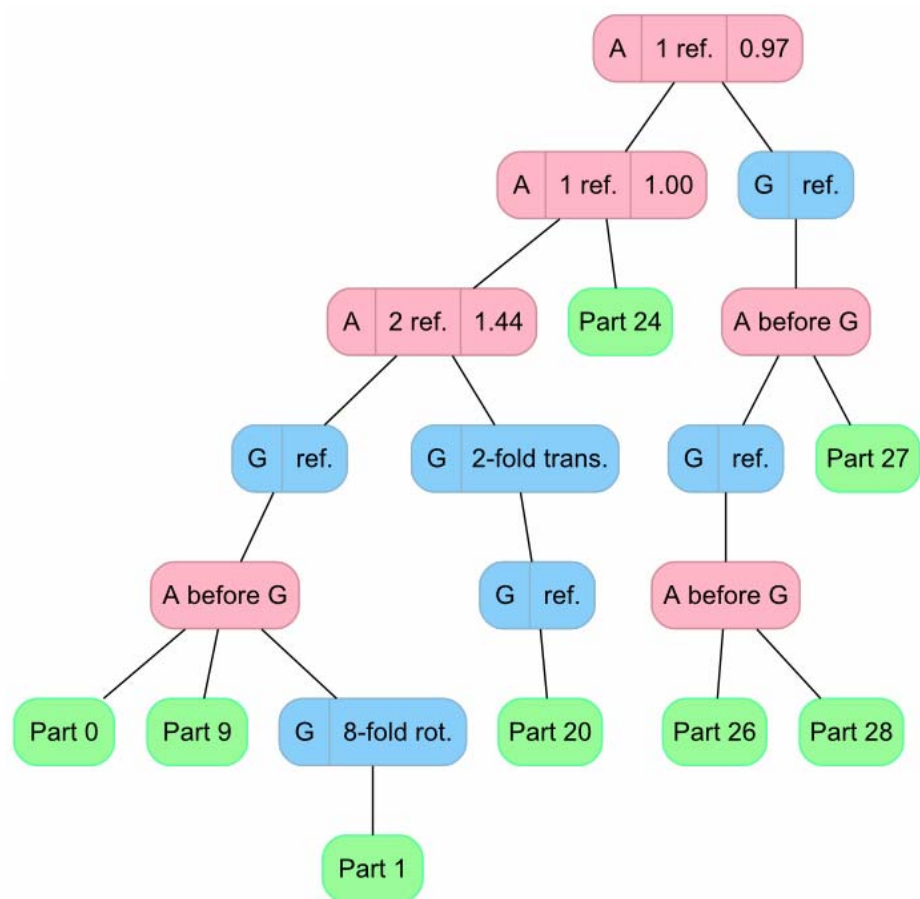
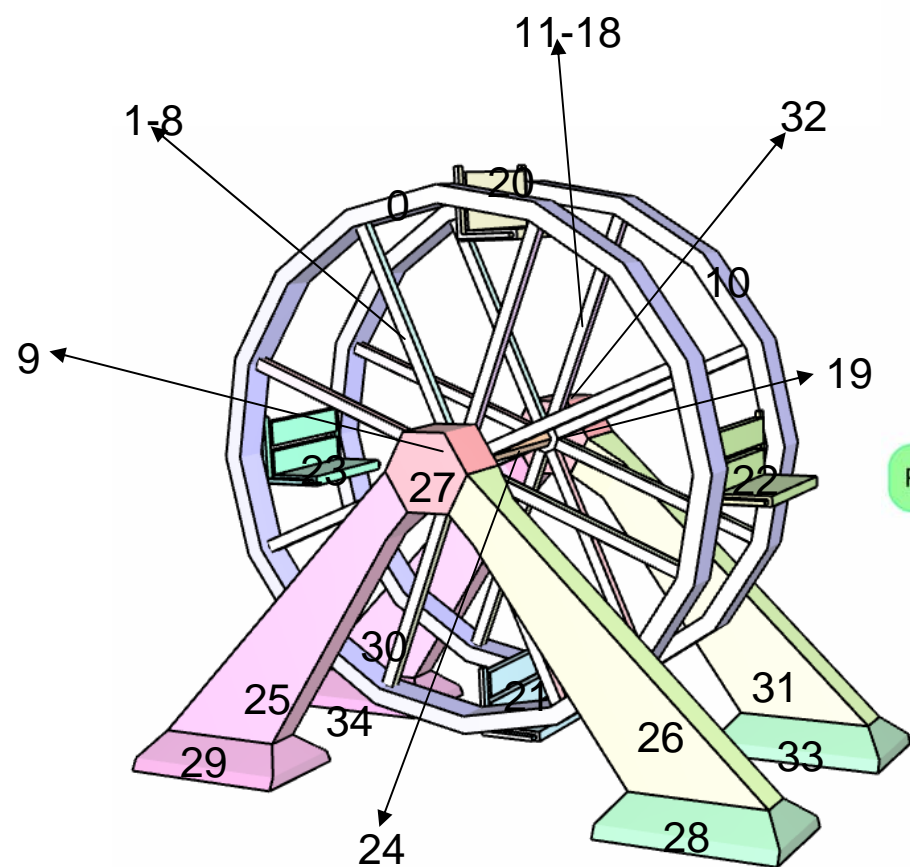


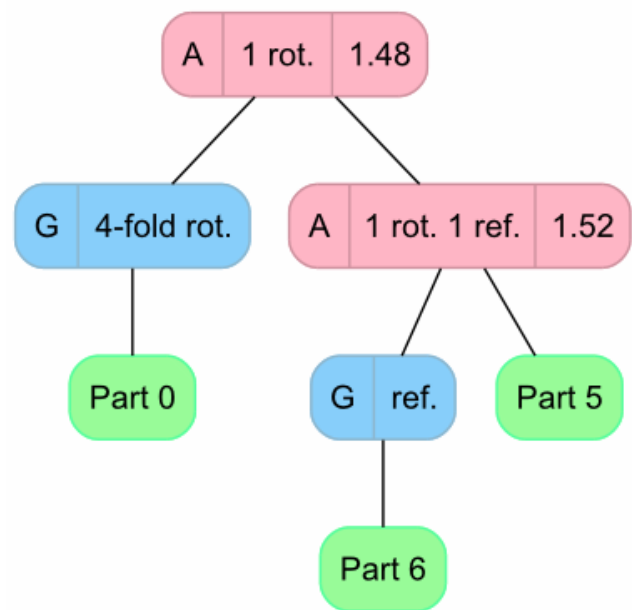
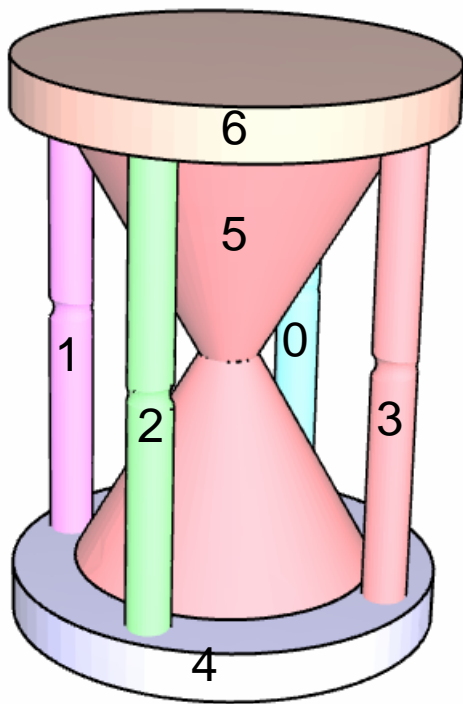
Symmetry hierarchies of a variety of man-made shapes

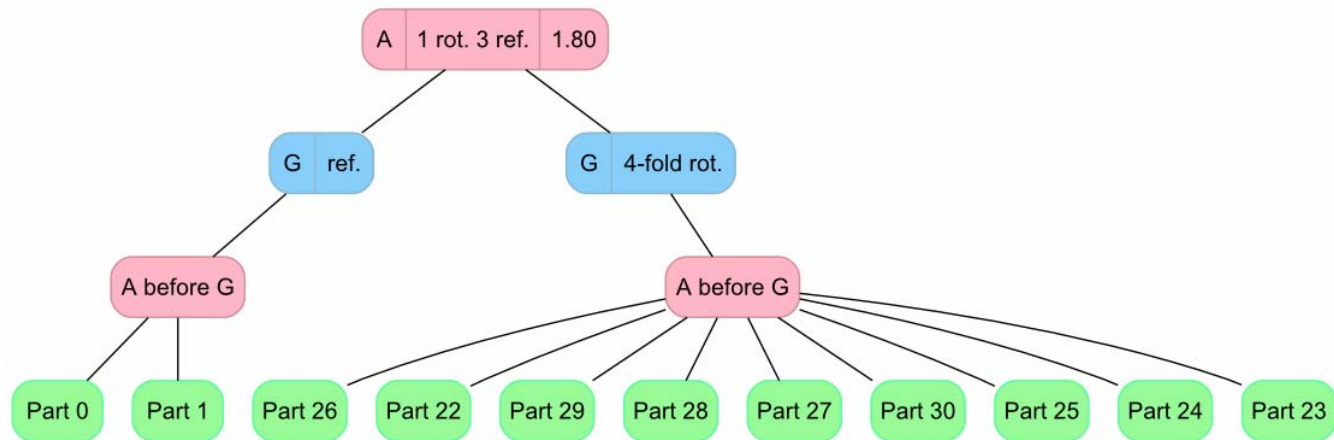
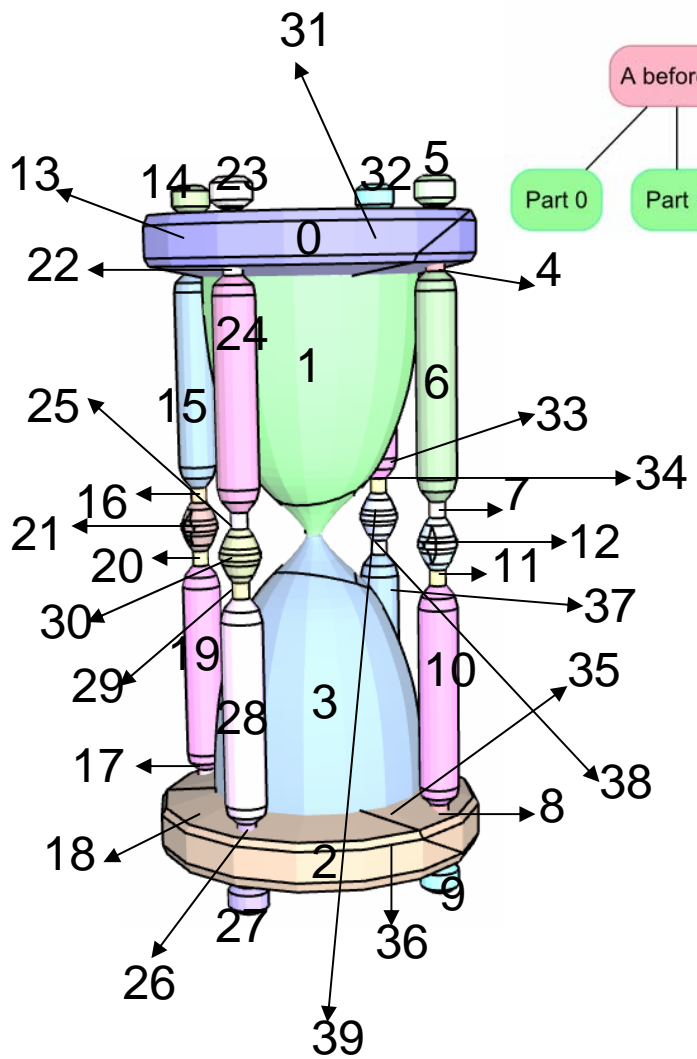
paper ID: 0222

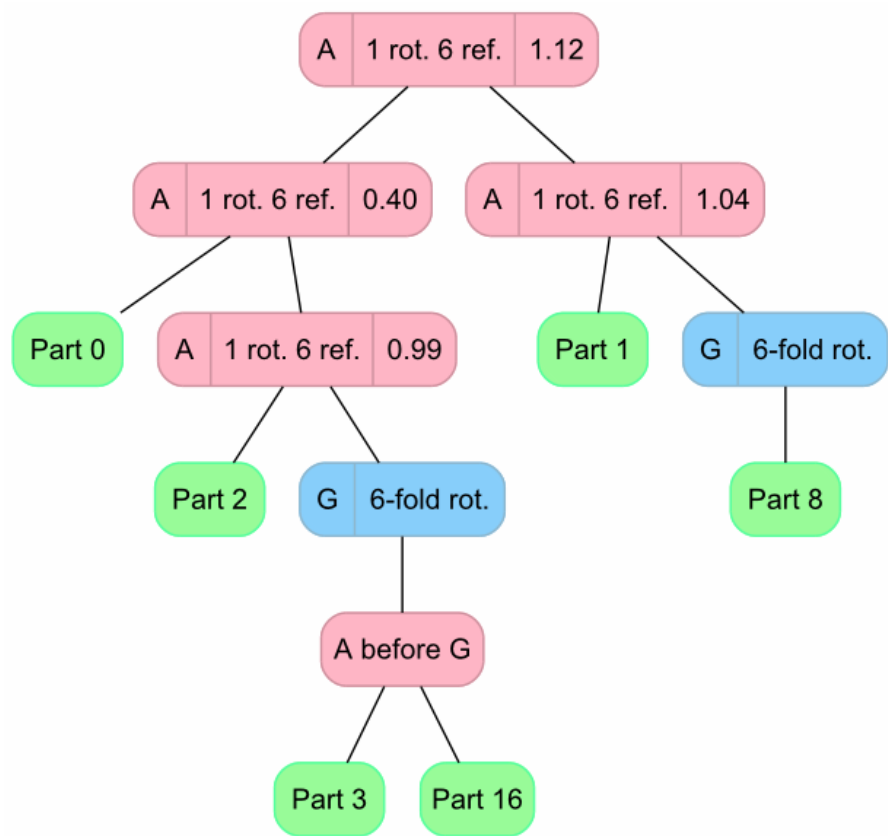
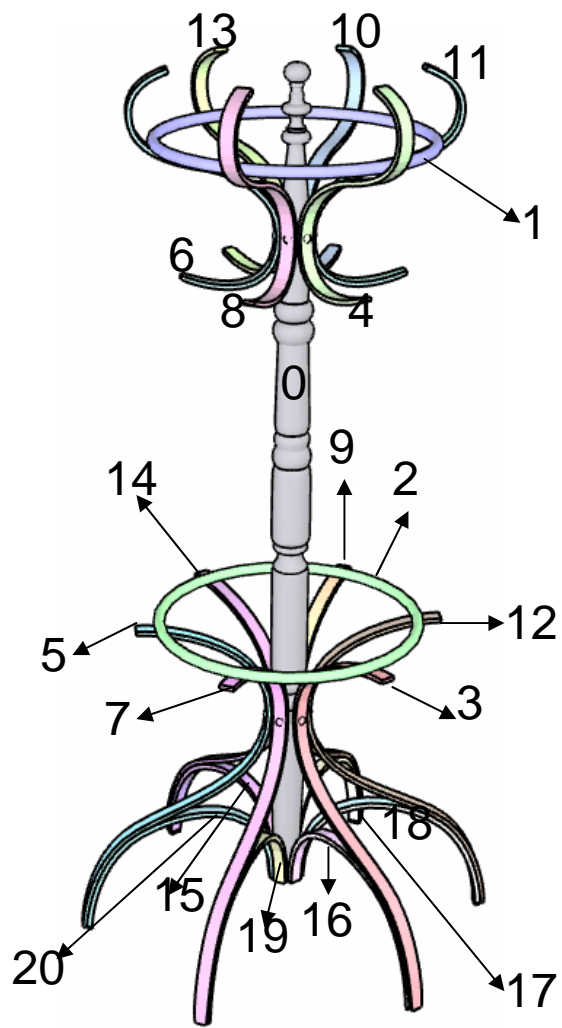
Legend and color

- Parts are labeled by numbers
- Nodes in symmetry hierarchy contain
 - Color:
 - Green: leave nodes
 - Blue: grouping nodes
 - Red: assembly nodes
 - Symmetry action for grouping or assembly
 - Connectivity strength



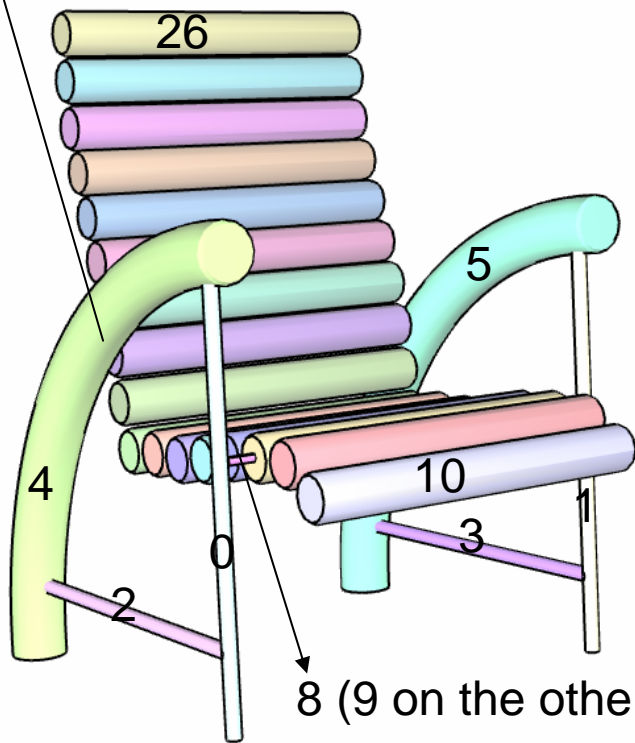




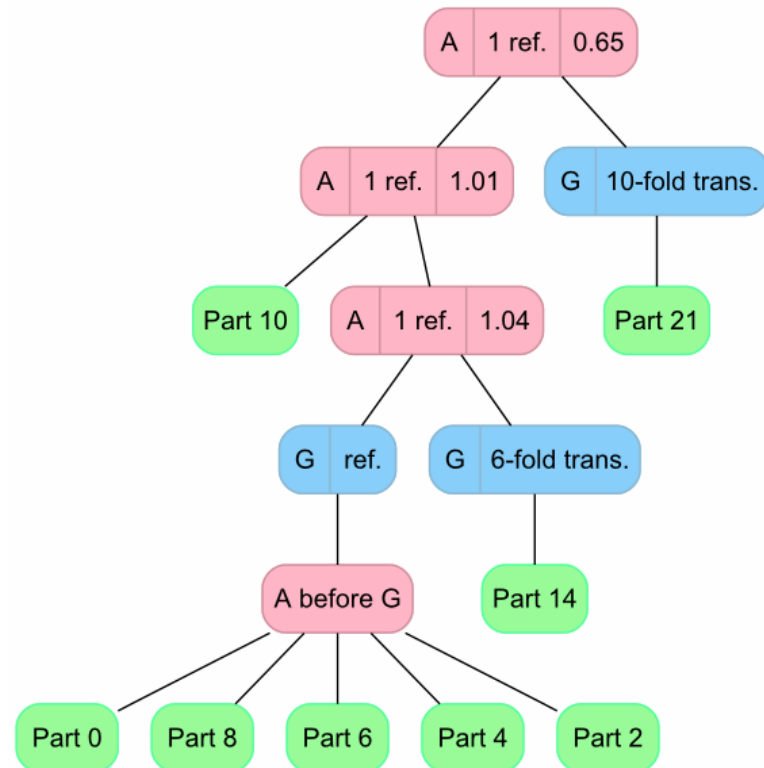


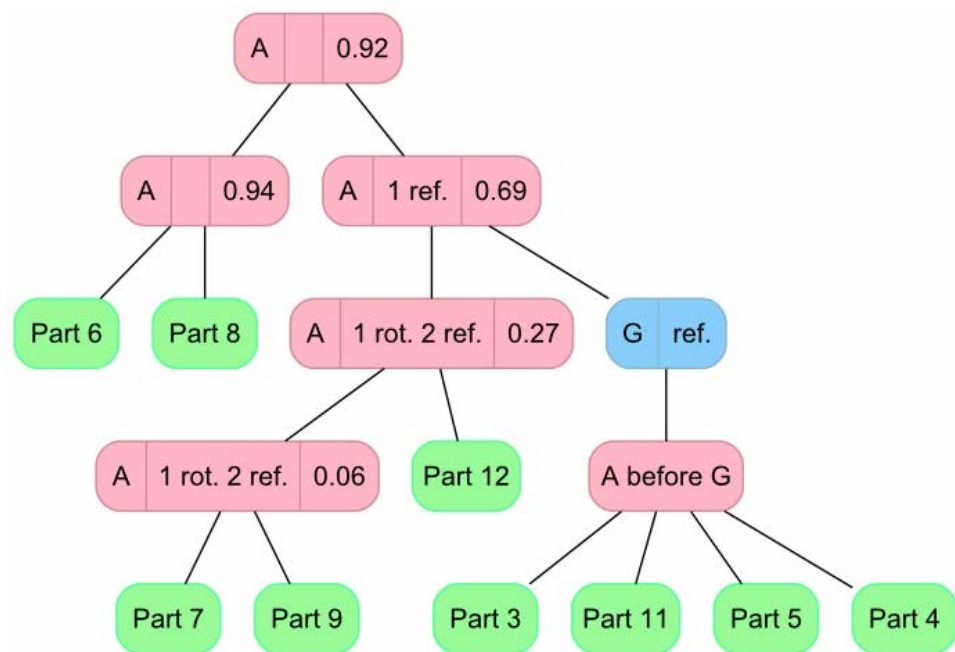
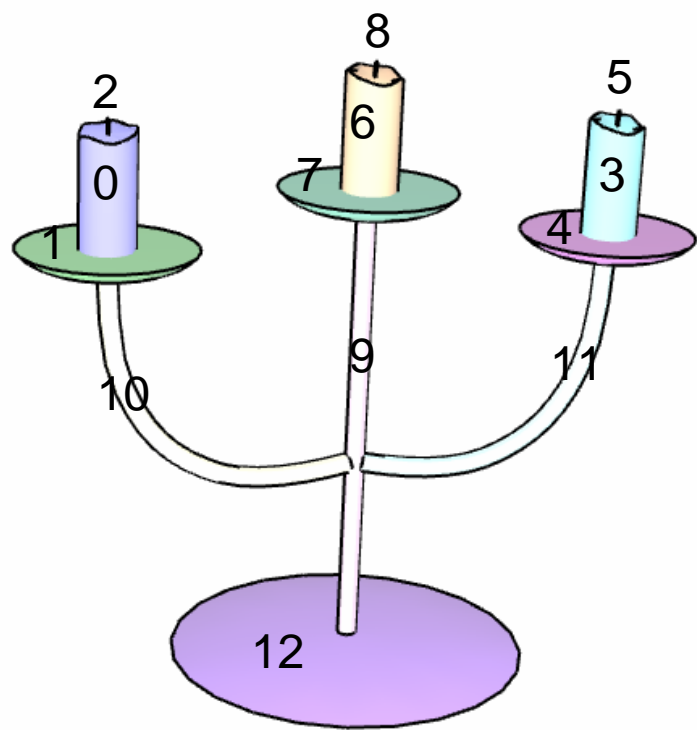
Cylinders: seat 10 - 16
back 17 - 26

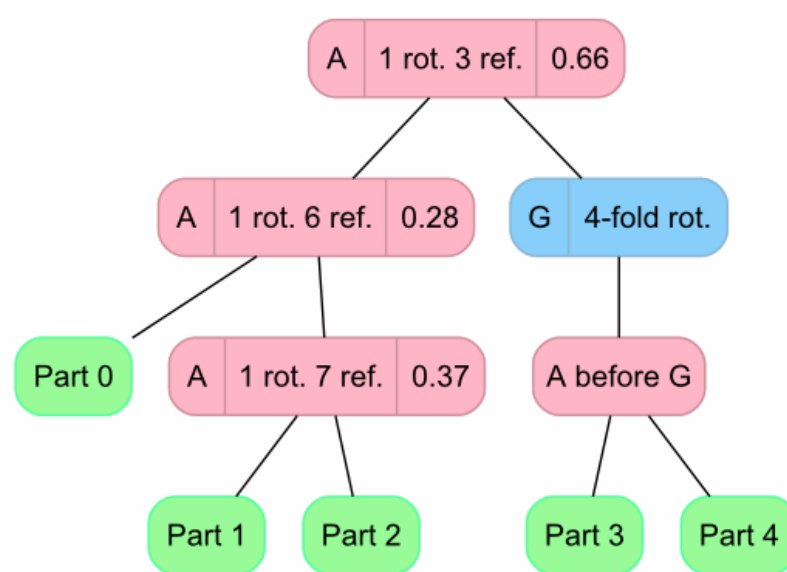
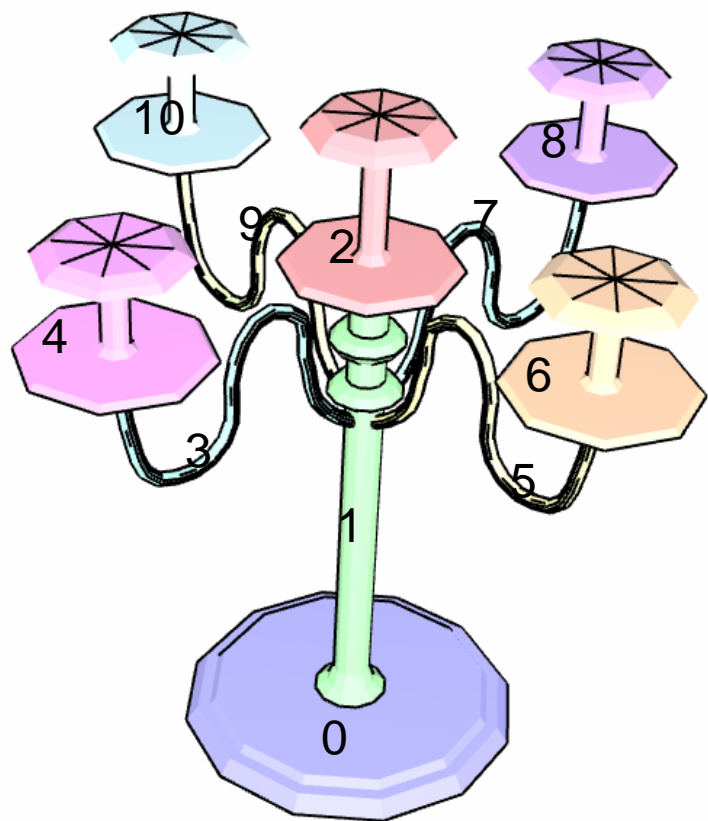
6 (7 on the other side)

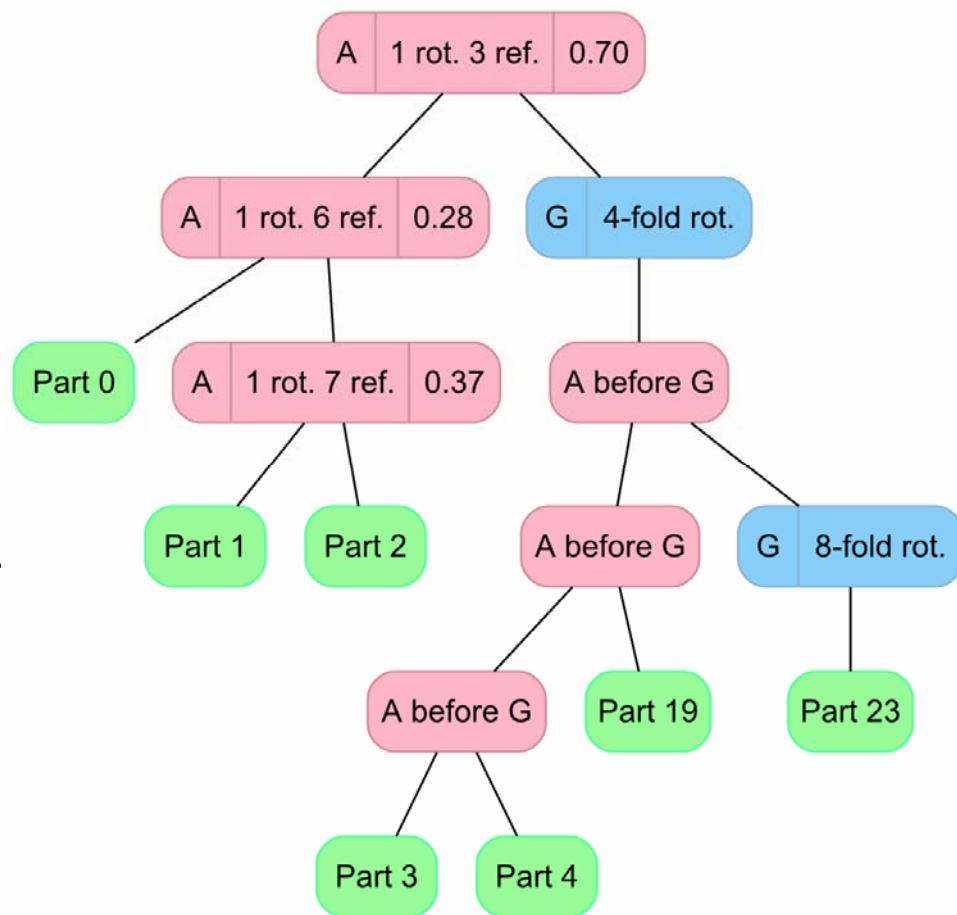
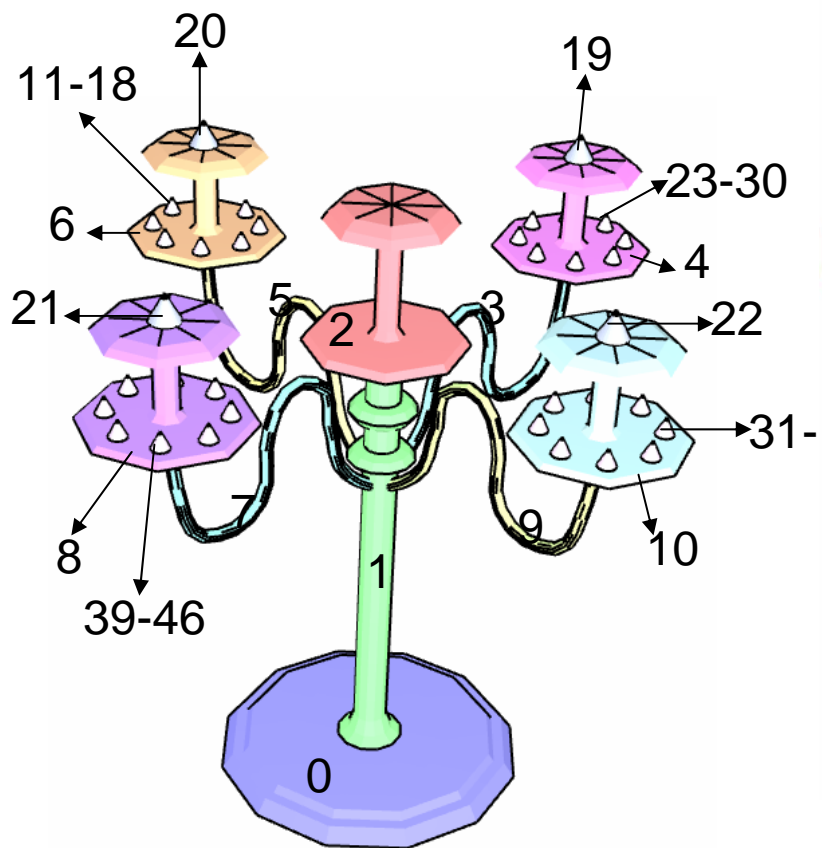


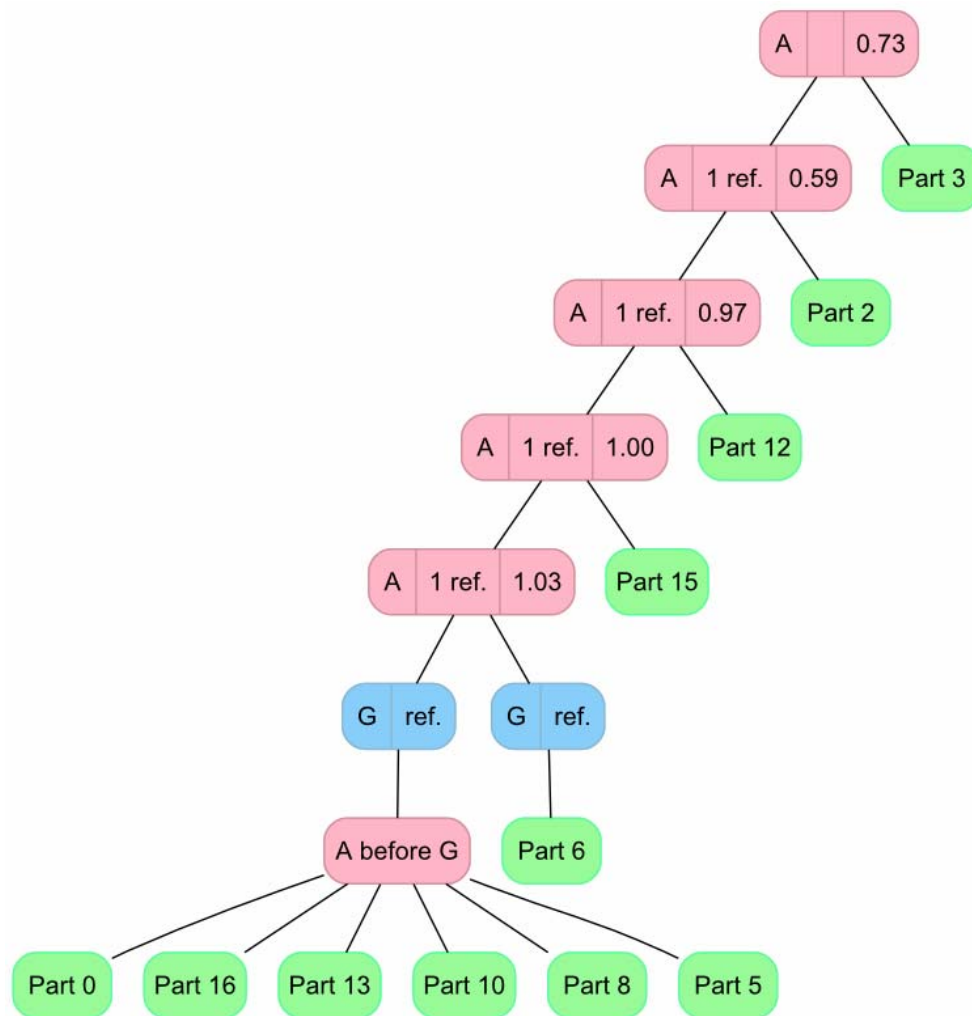
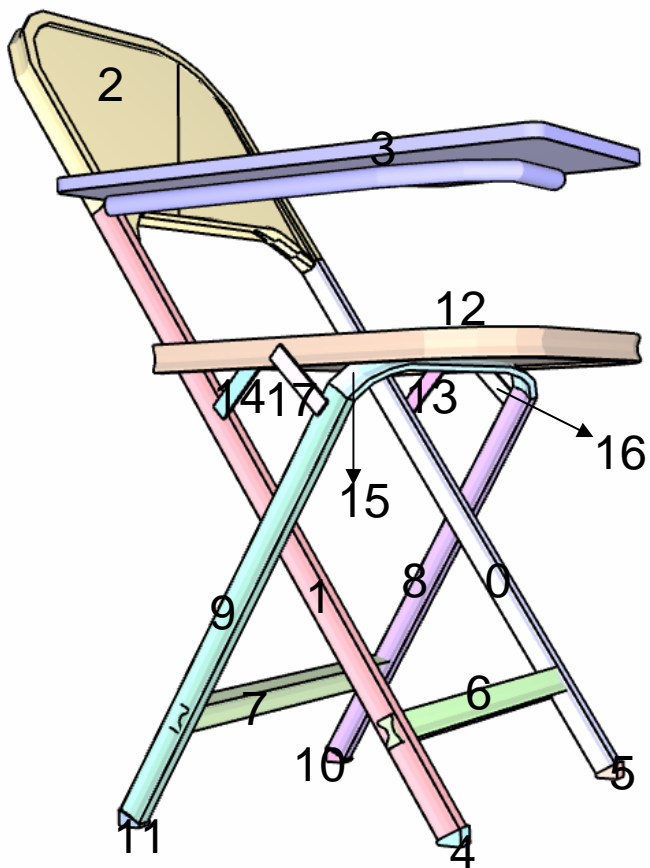
8 (9 on the other side)

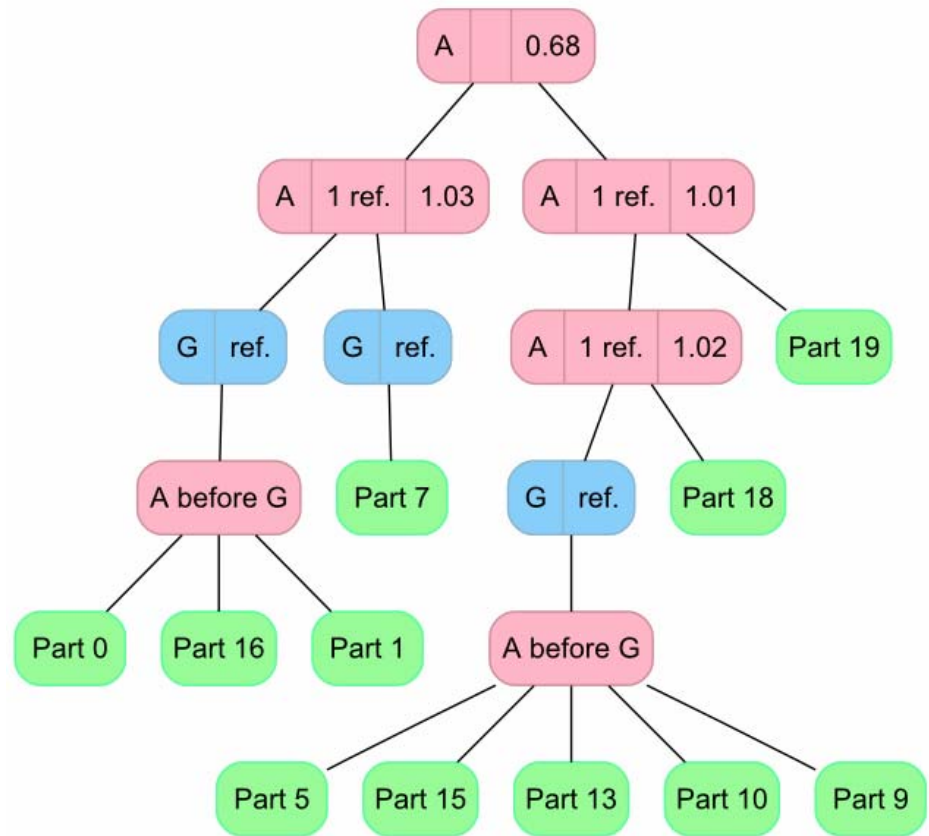
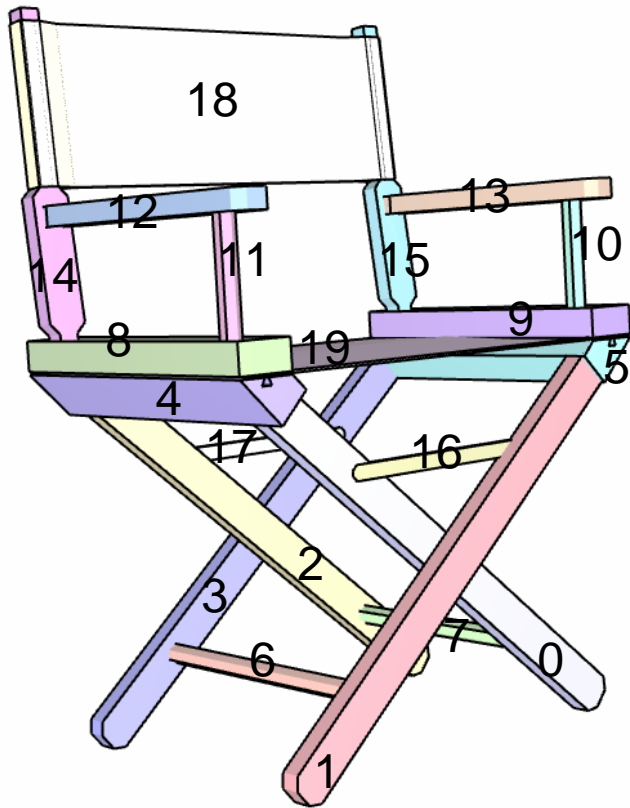


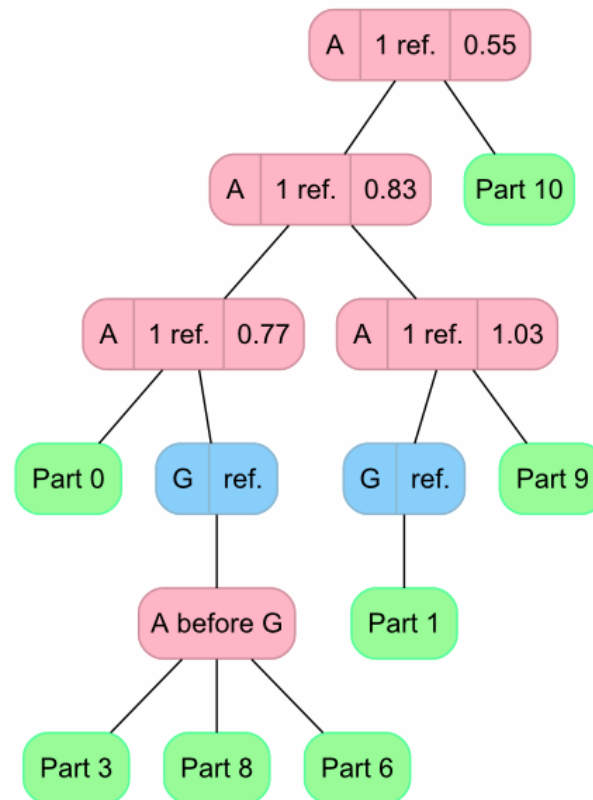
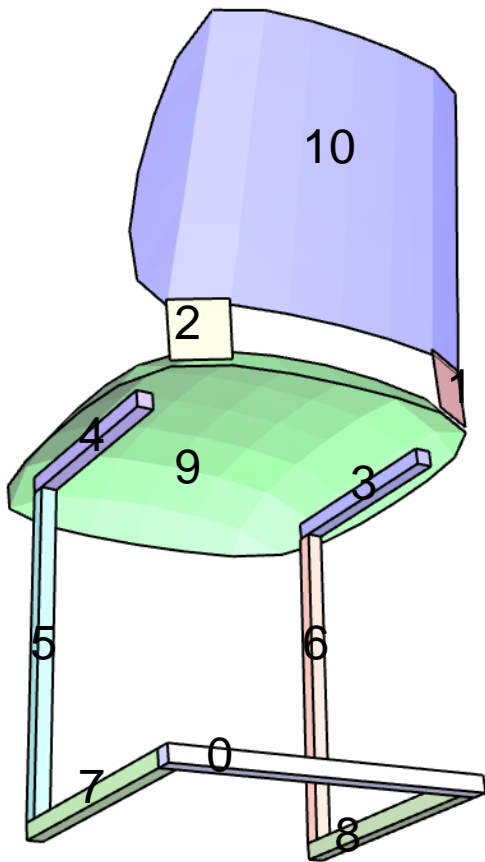


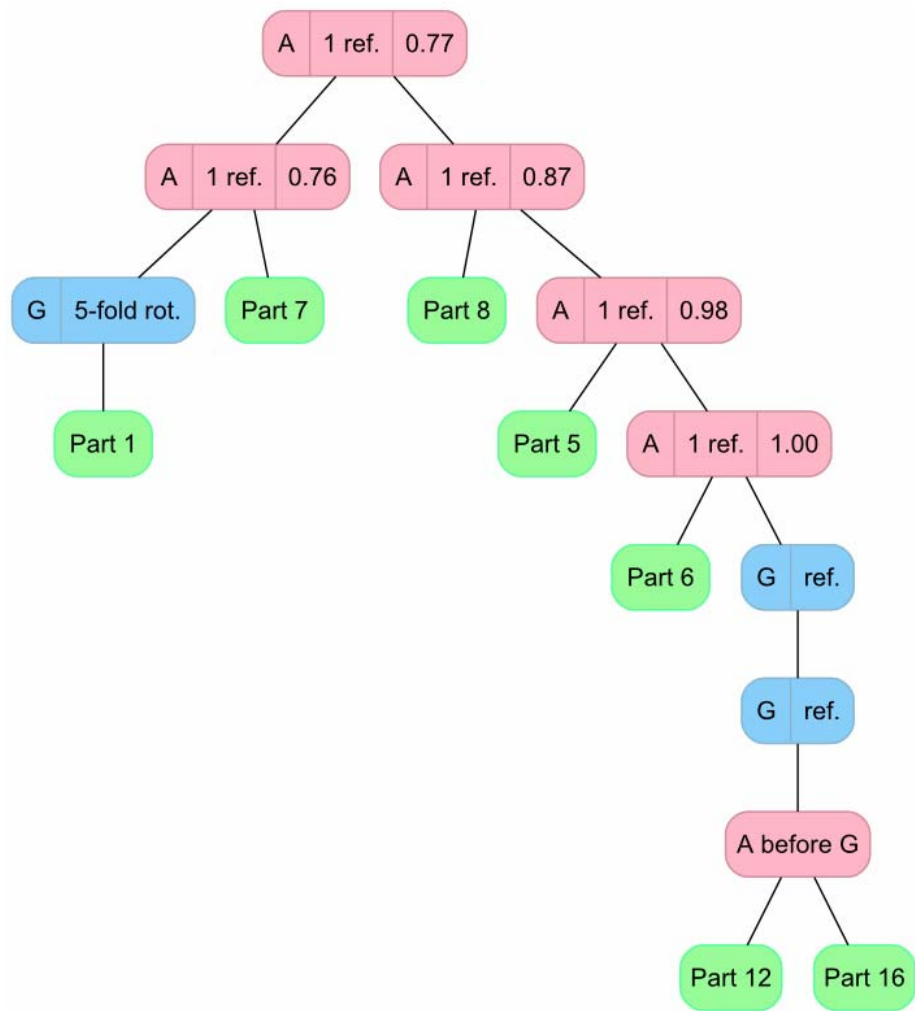
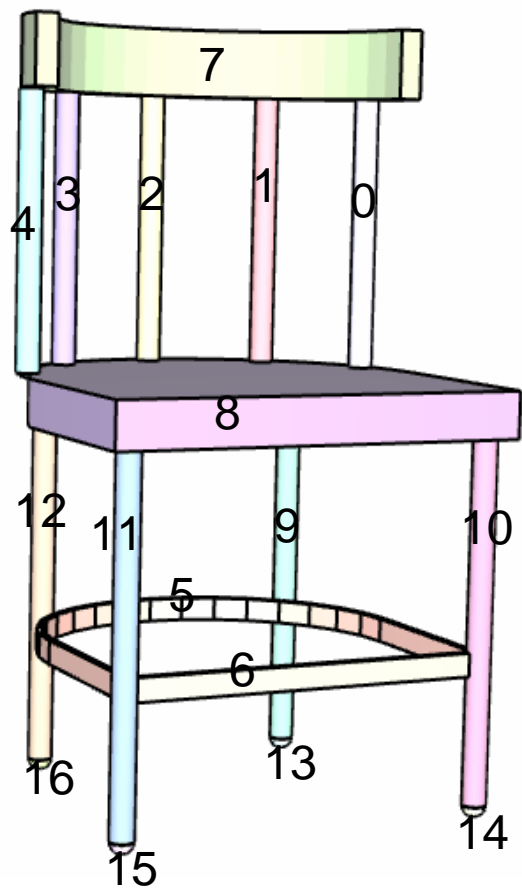


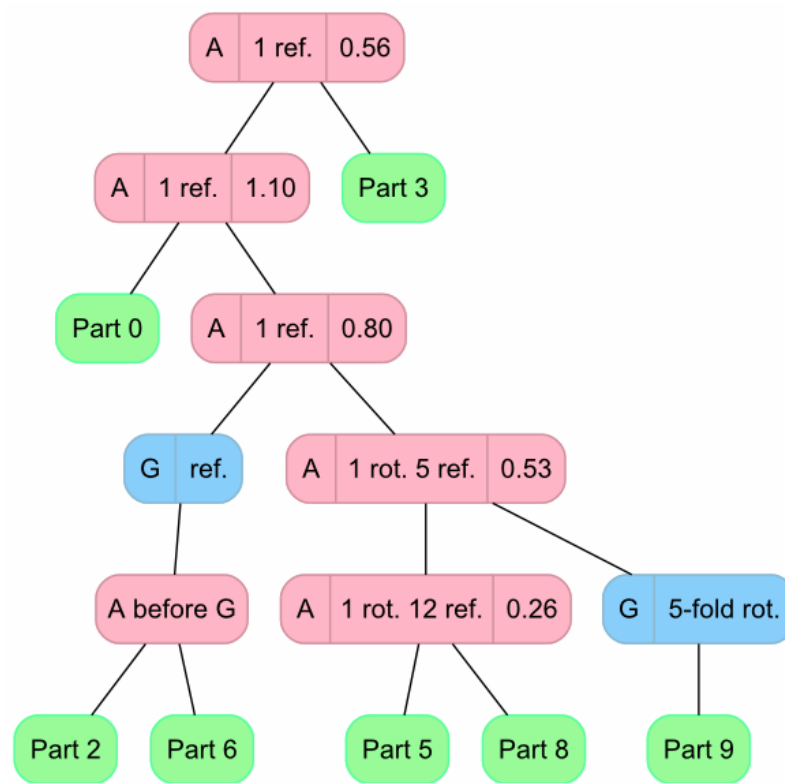
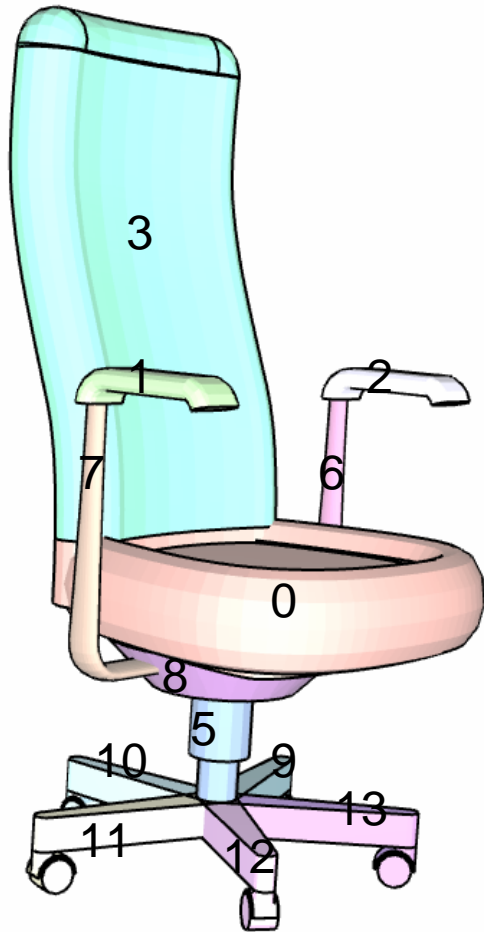


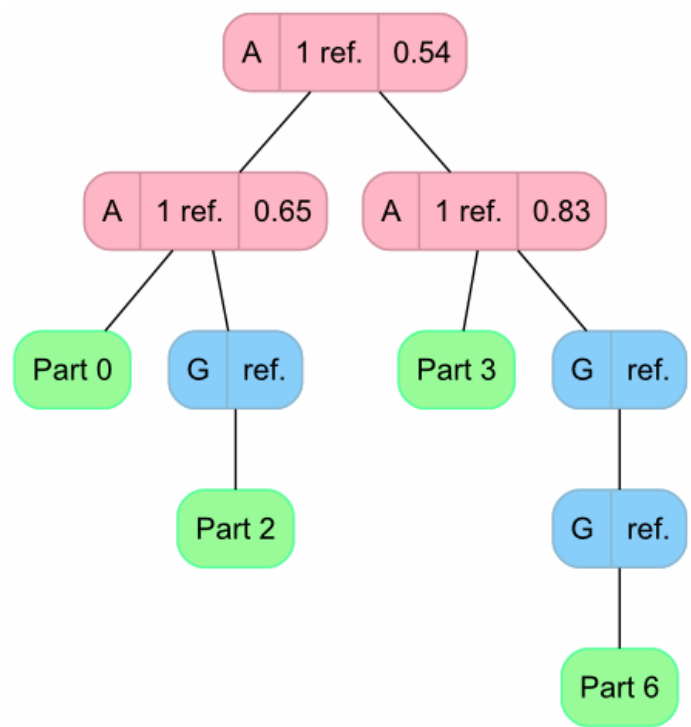
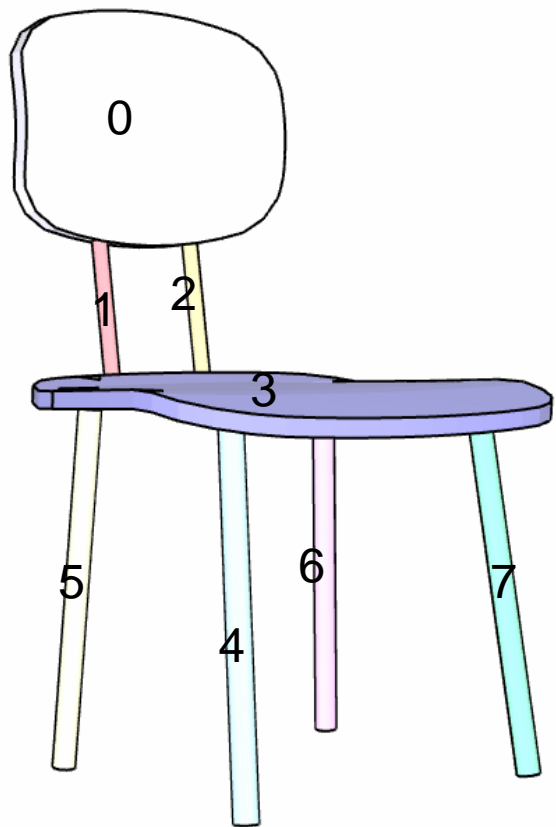


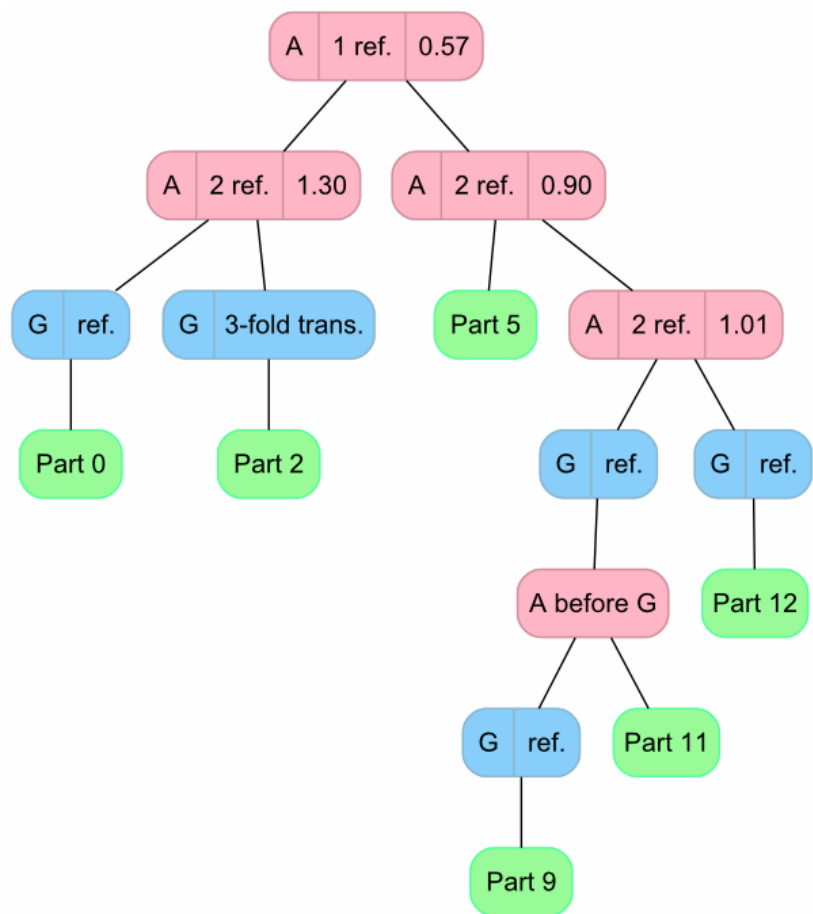
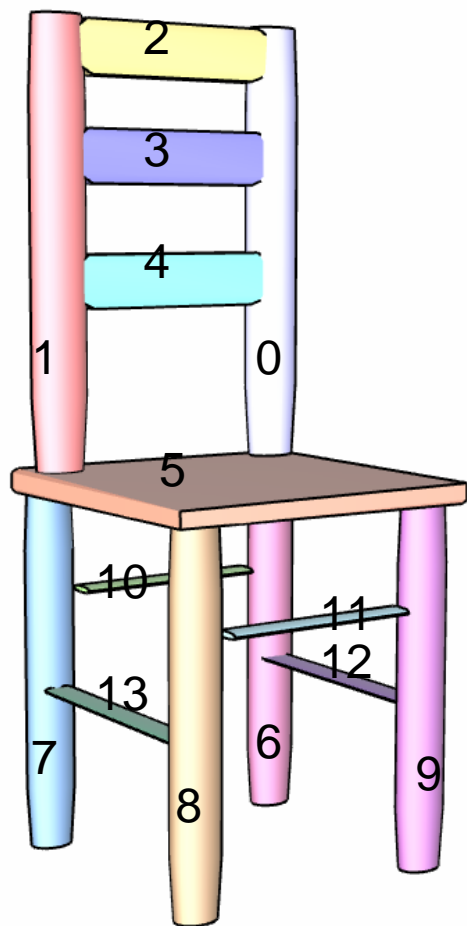


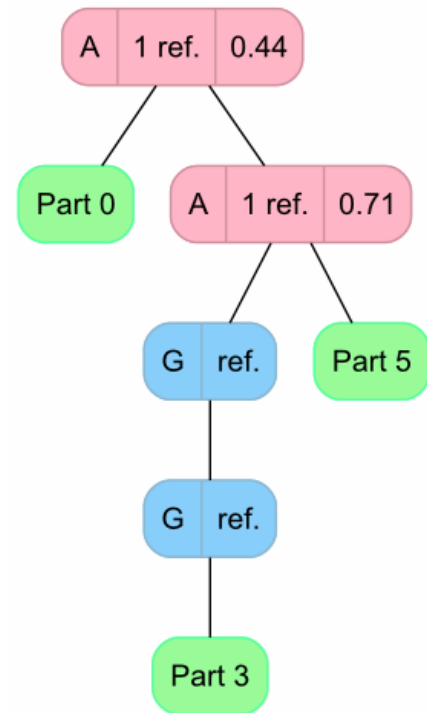
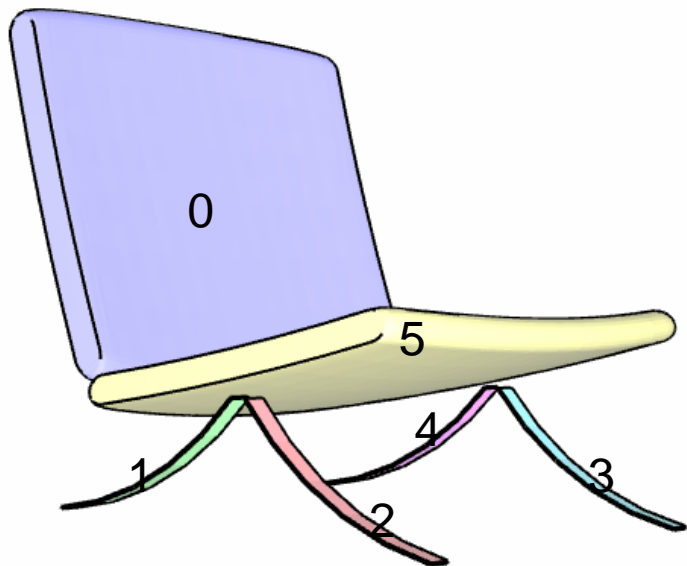


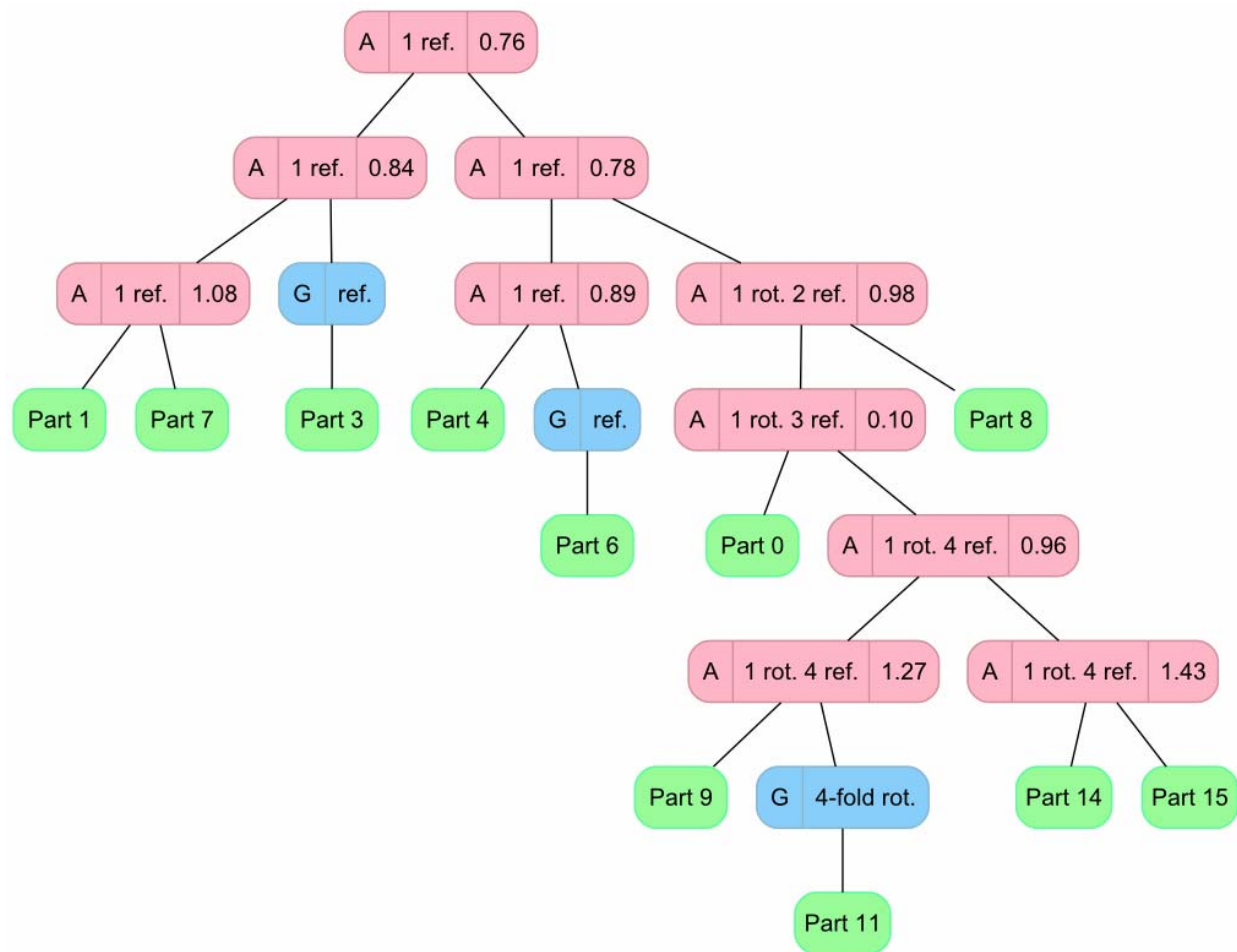
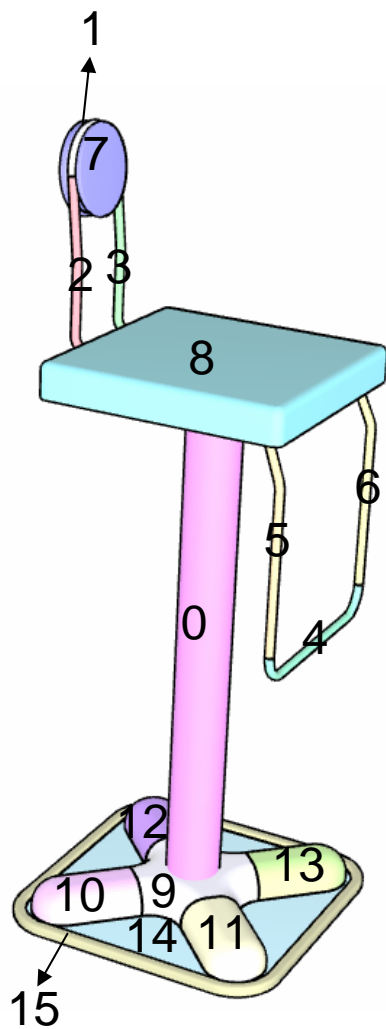


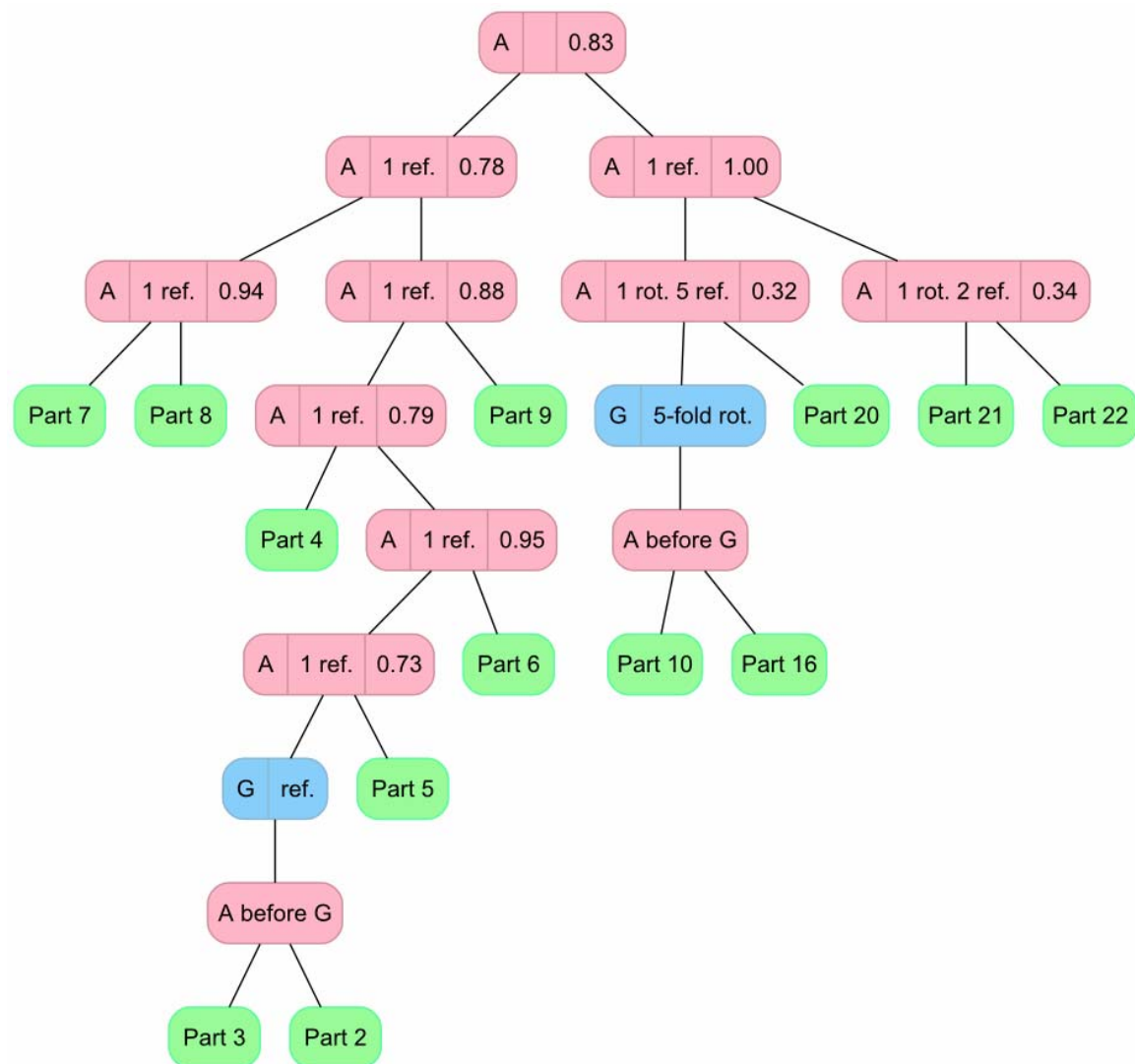
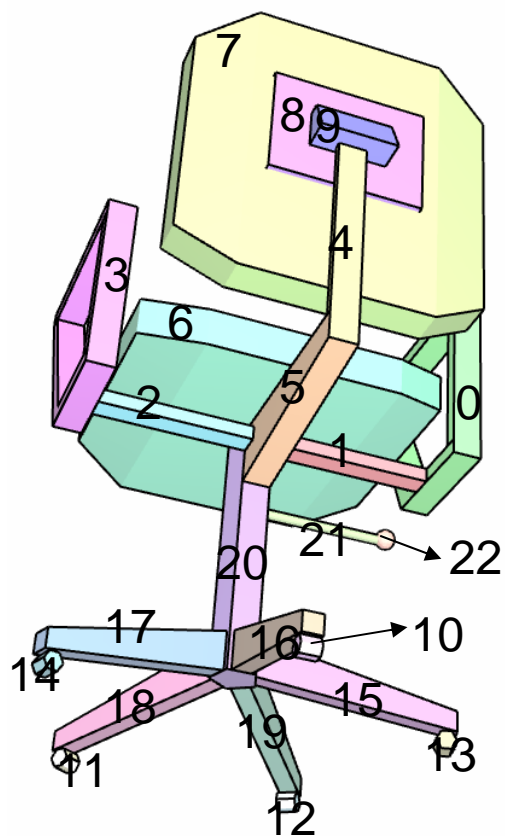


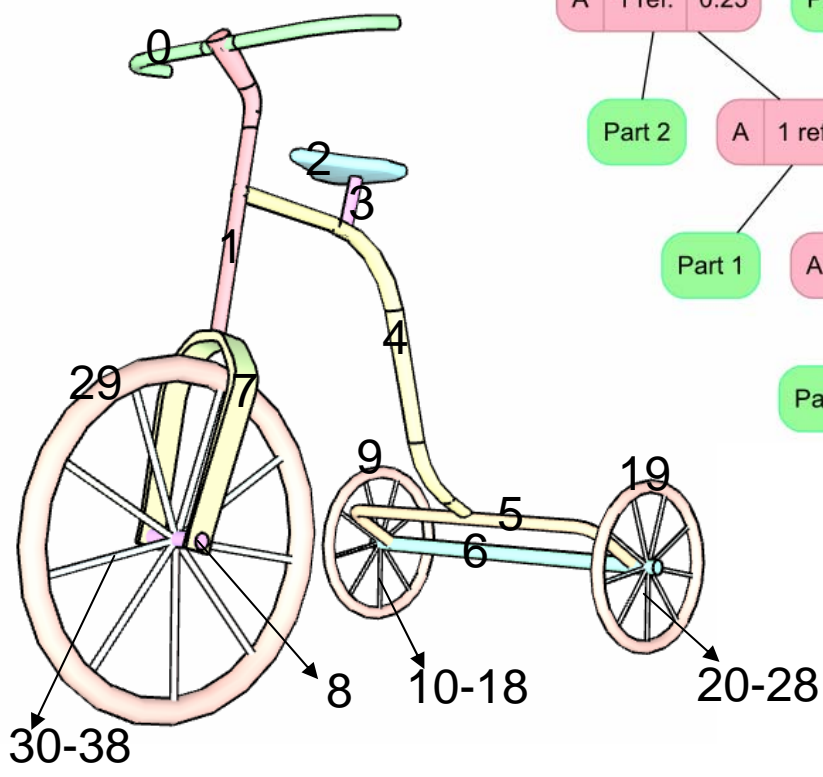


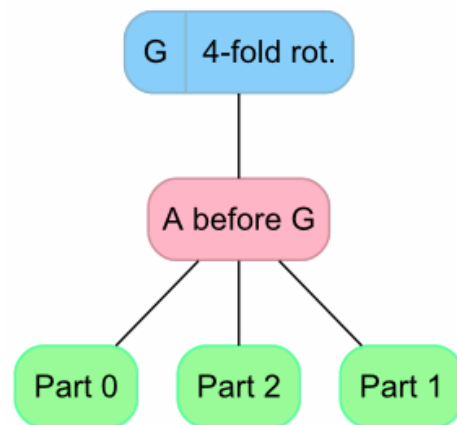
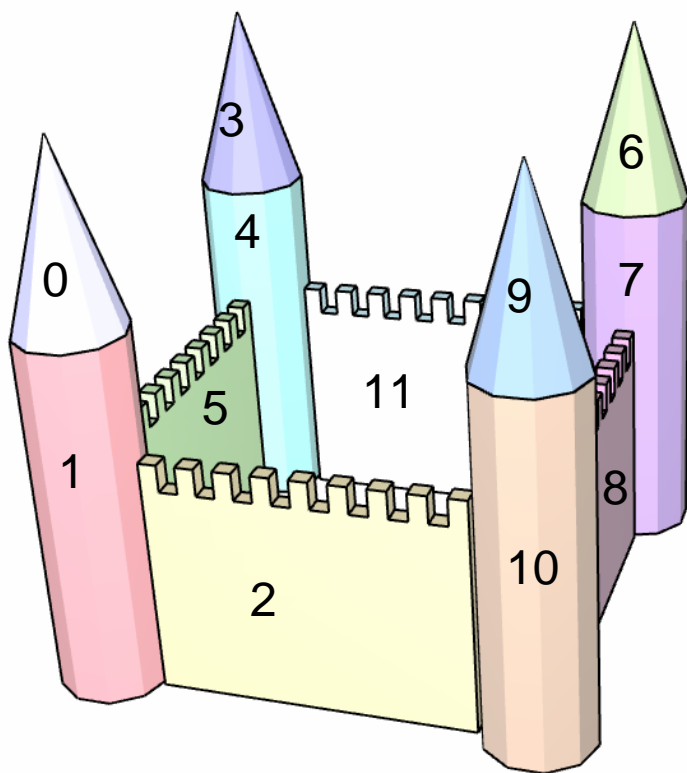


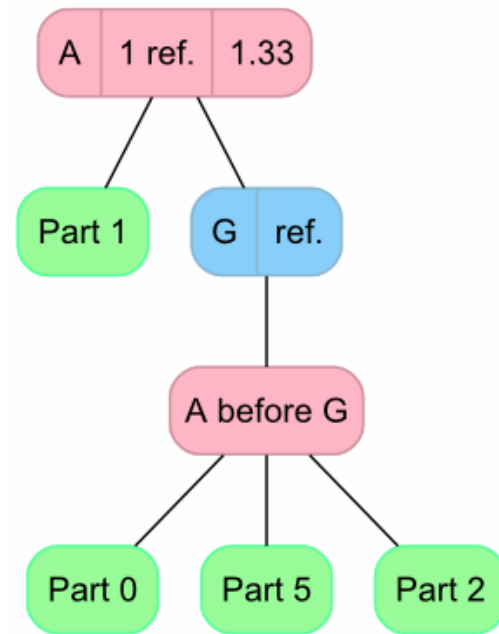
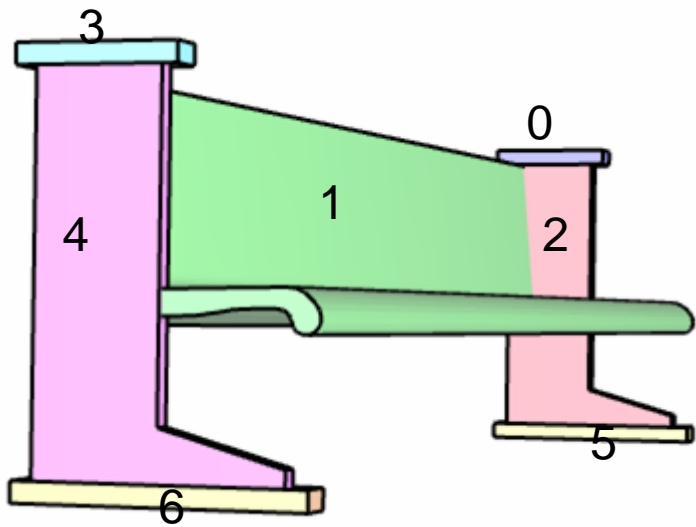


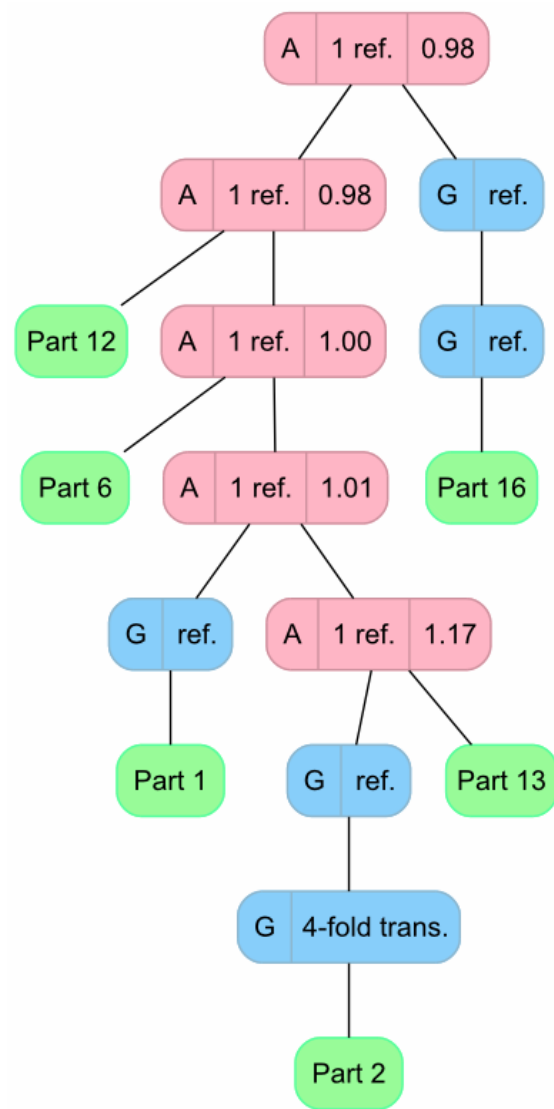
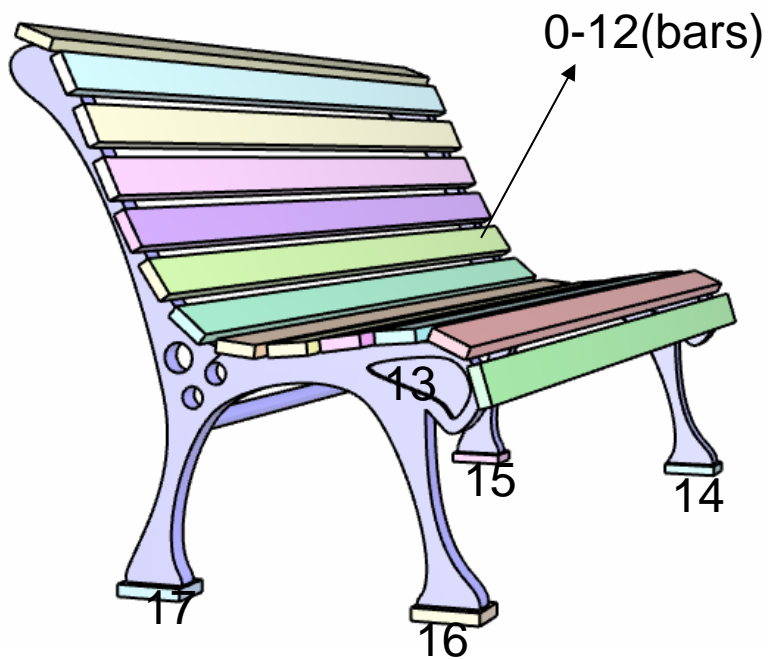






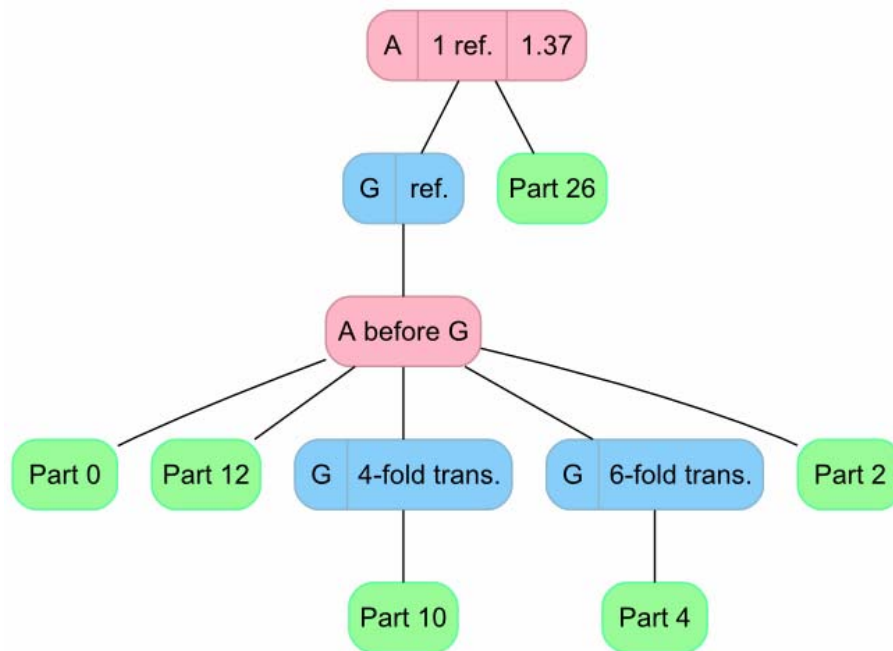
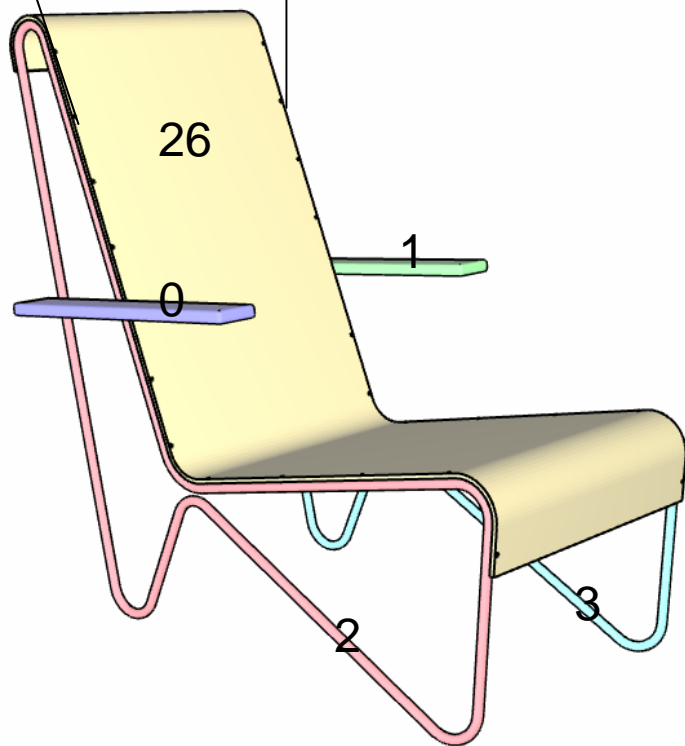


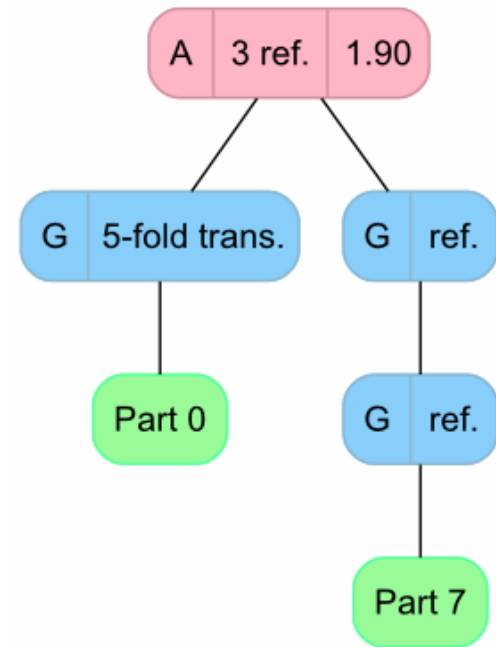
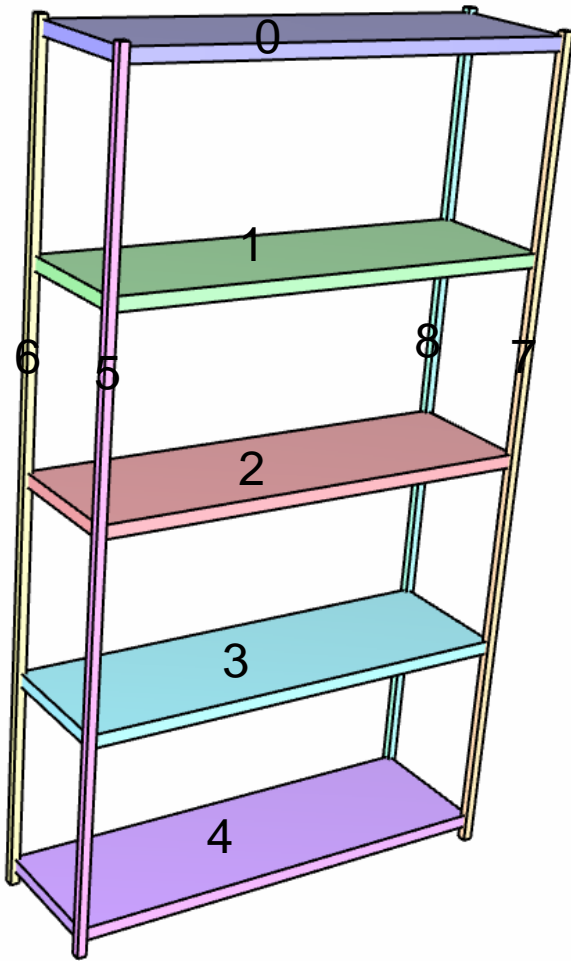


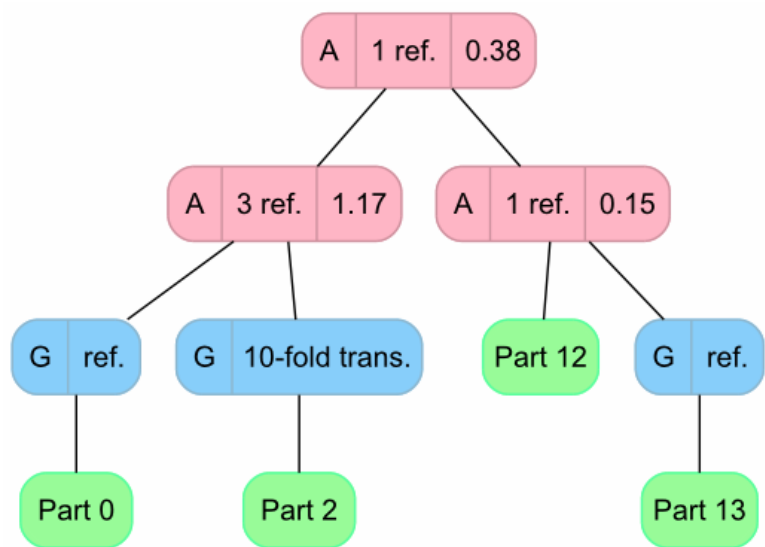
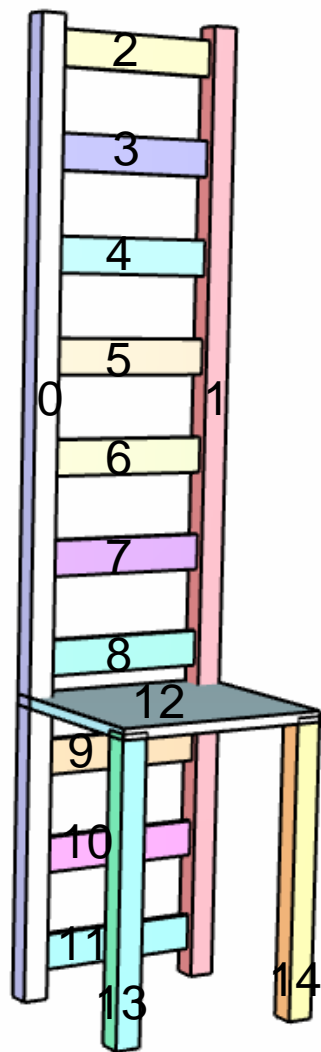


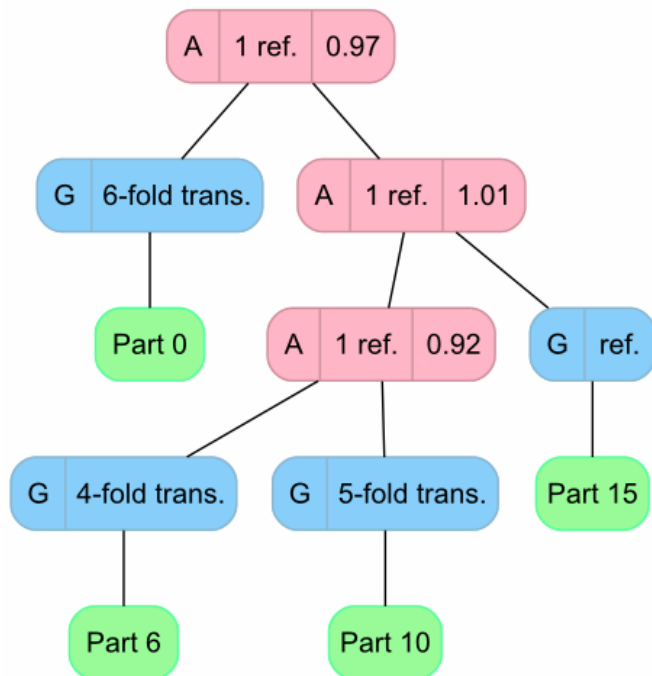
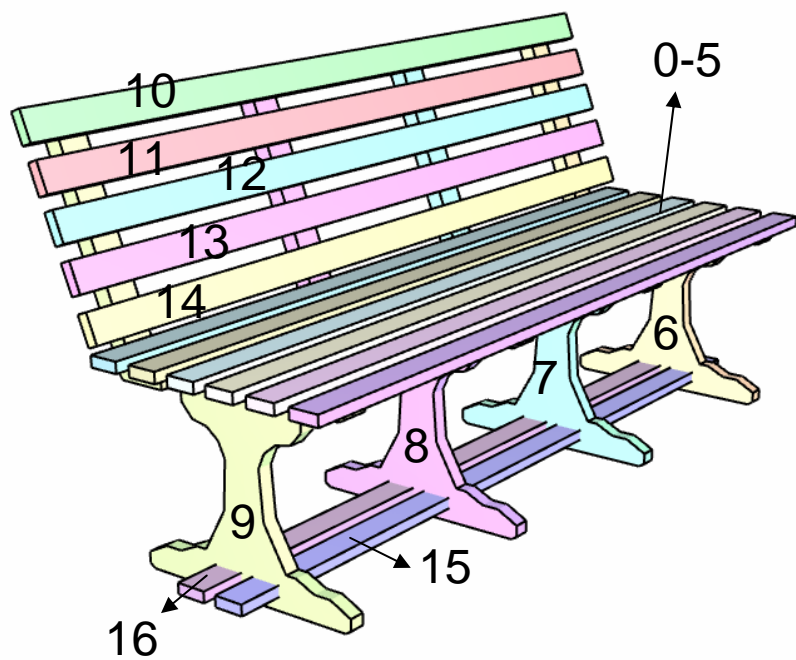
4-14(nails)

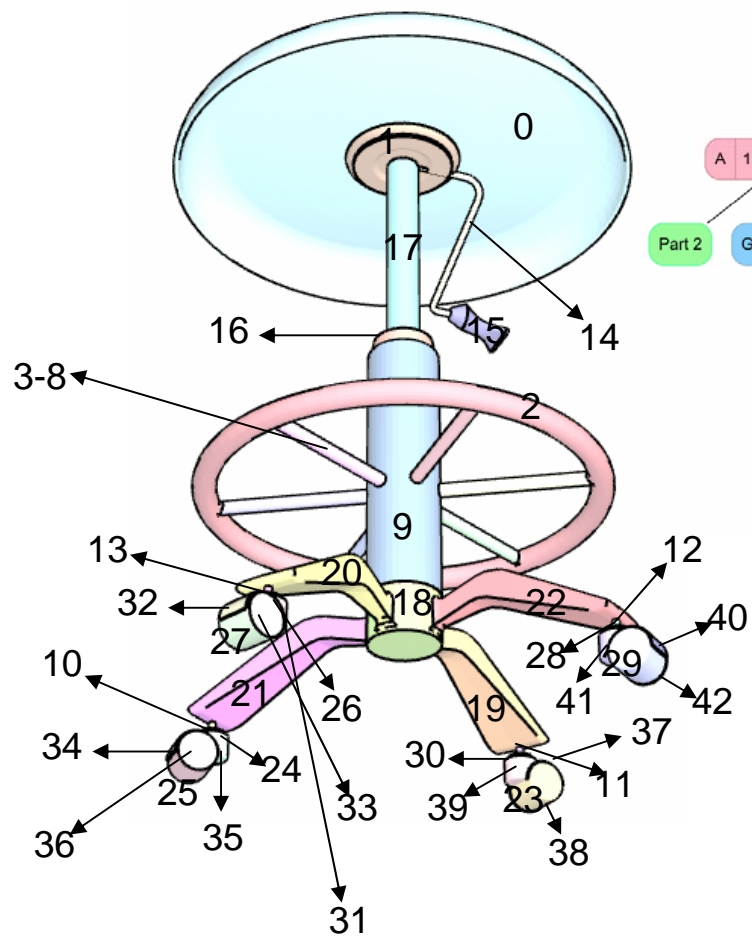
15-25(nails)

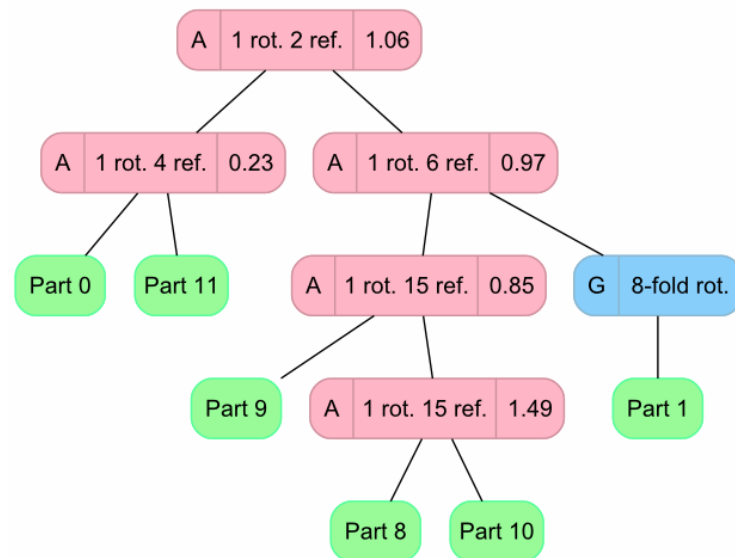
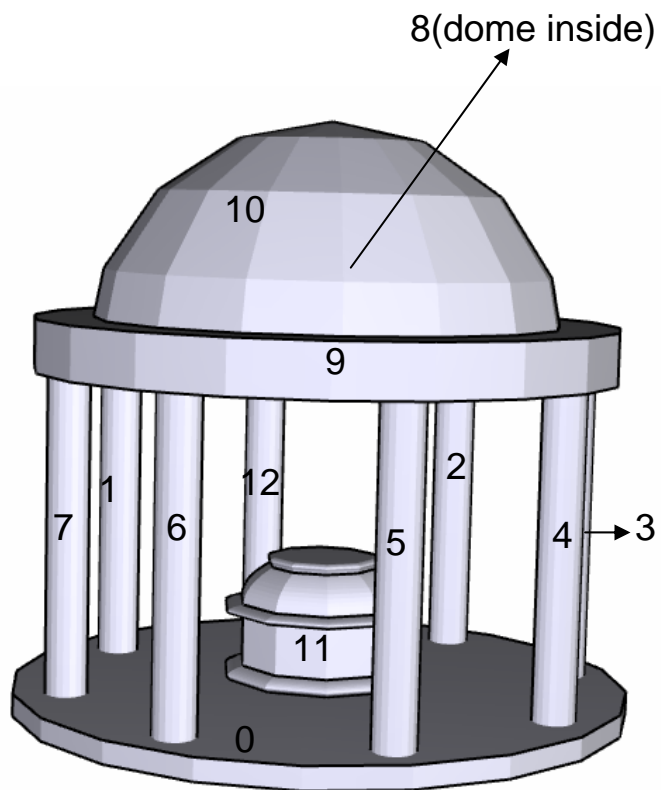




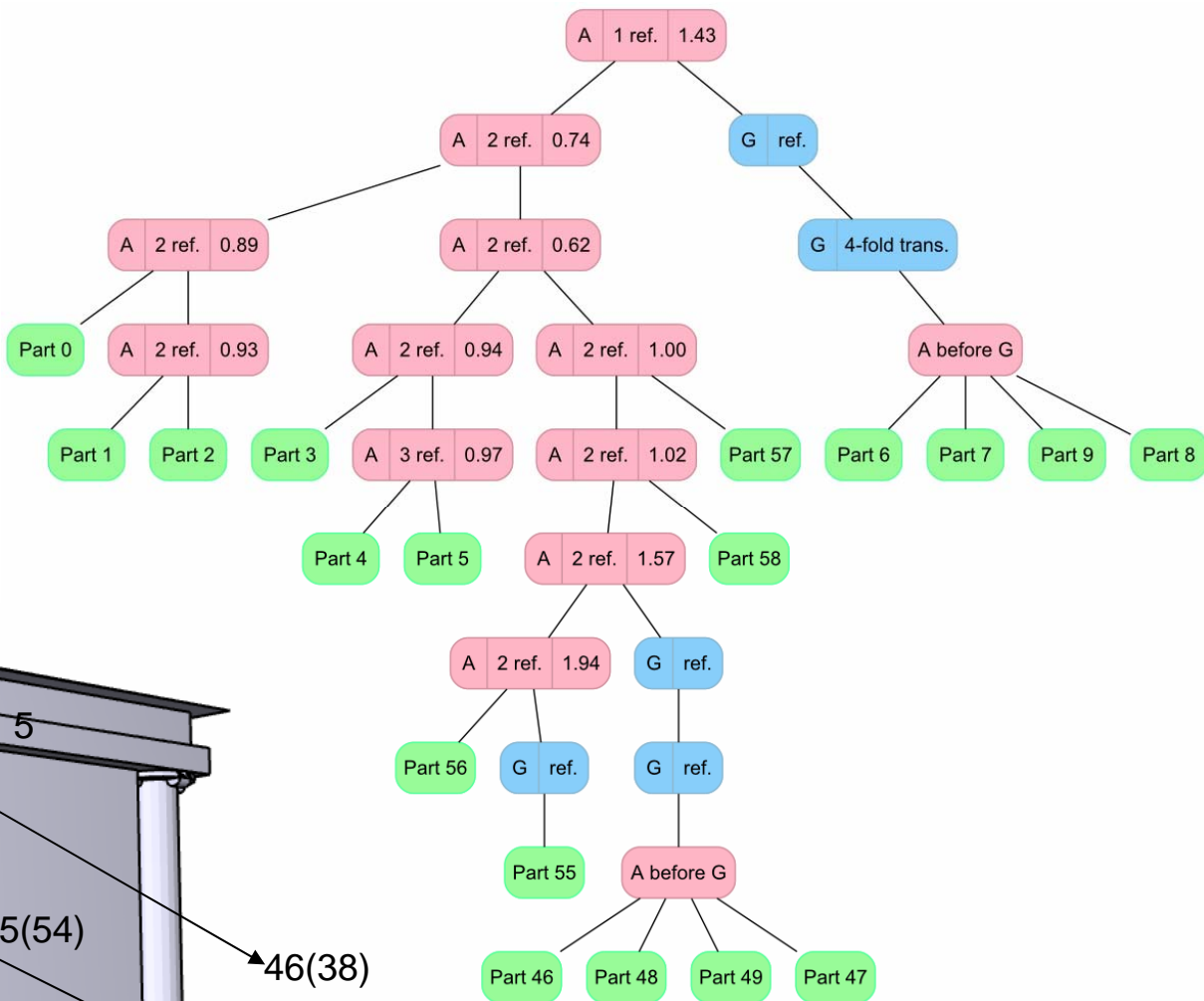
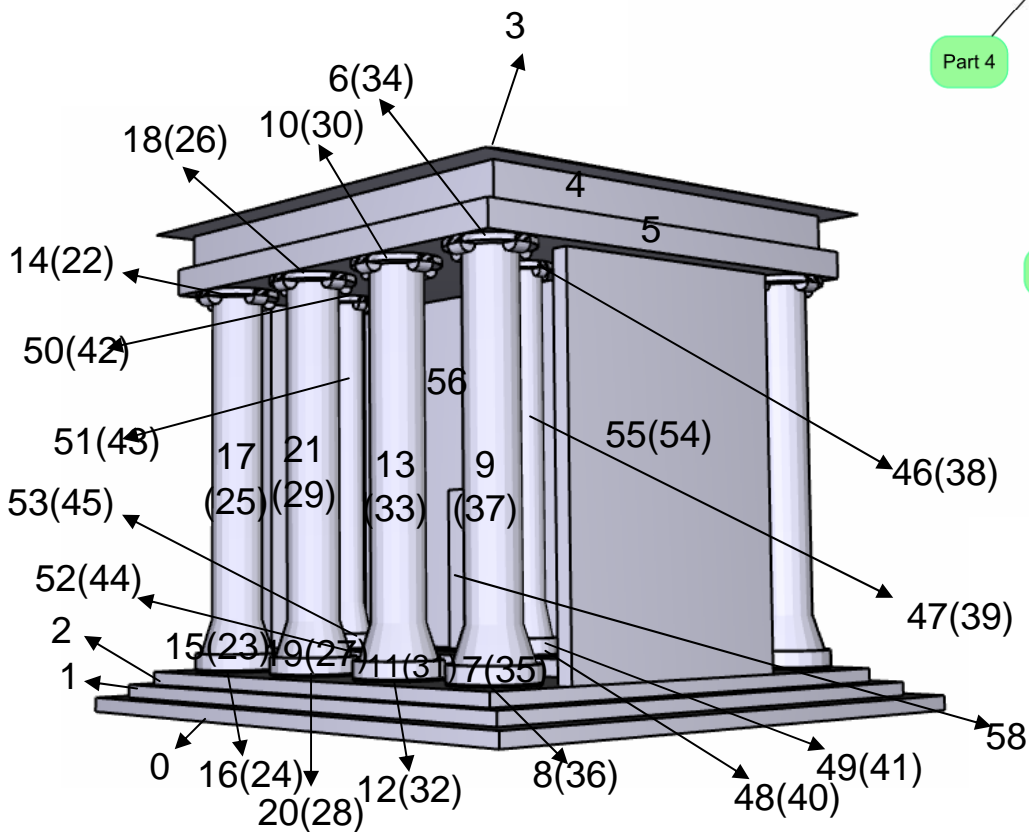


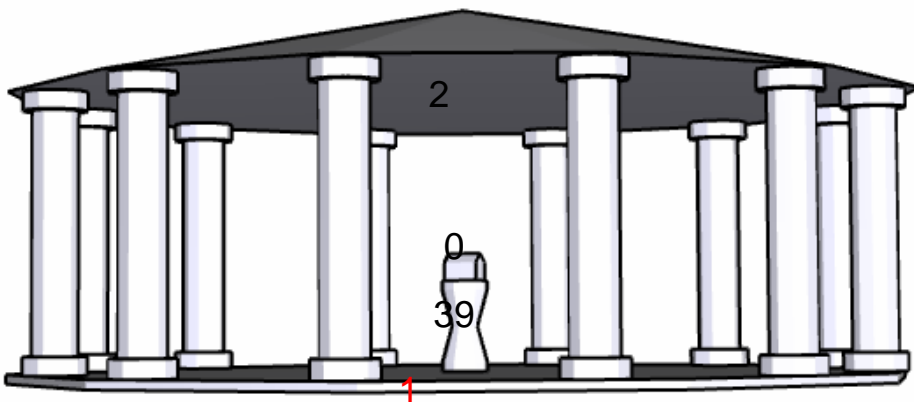






57(square in the mid base)





Pillars:

4	7	10	13	17	22	19	25	28	31	34	37
3	6	9	12	15	21	18	24	27	30	33	36
5	8	11	14	16	23	20	26	29	32	35	38

