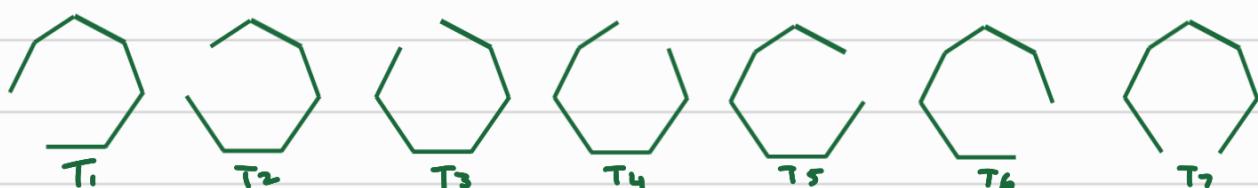
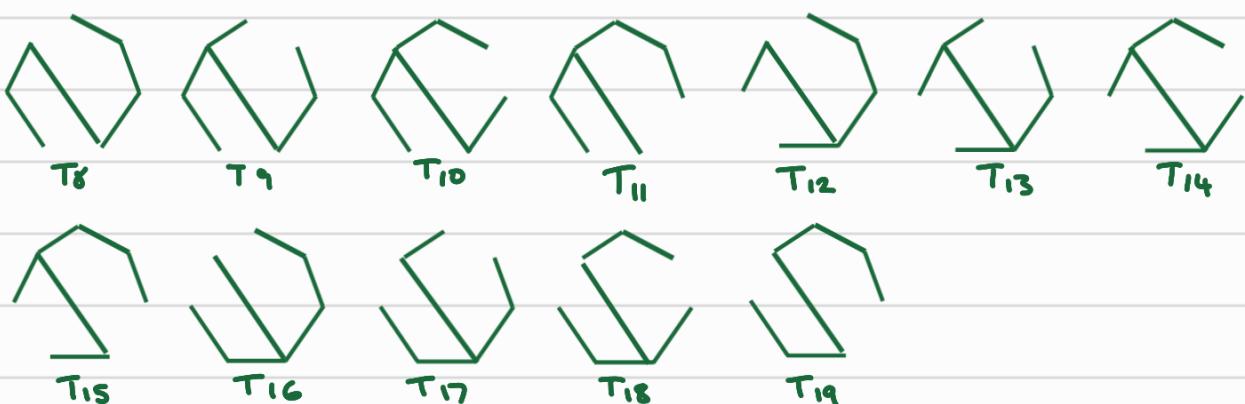


$I_7$  trees



Remaining  $\Gamma$  trees



Chosen subgraphs



Trees

$T_3, T_8, T_{12}, T_{16}$

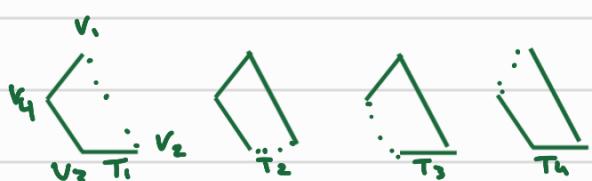
$T_4, T_9, T_{13}, T_{17}$

$T_5, T_{10}, T_{14}, T_{18}$

$T_6, T_{11}, T_{15}, T_{19}$

Map/ST:

Before we apply  
off-rotate



Back to  $\Gamma$  labelling:

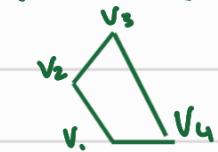
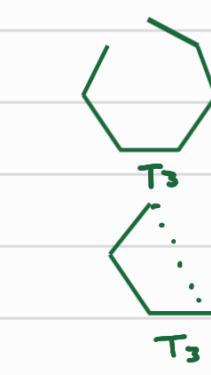
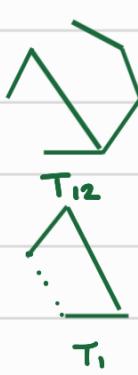


Map/ST is necessary  
for relabelling trees  
after mod-cycle-to-a-sign.

$$\begin{array}{l} 1 \rightarrow 3 \\ 2 \rightarrow 4 \\ 3 \rightarrow 1 \\ 4 \rightarrow 2 \end{array}$$

$$\text{Map/ST} = [3, 4, 1, 2]$$

# Determining tree-map-data for get\_all\_G\_cuses().



$1 \mapsto 12$   
 $2 \mapsto 16$   
 $3 \mapsto 3$   
 $4 \mapsto 8$

treeList = [12, 16, 3, 8]



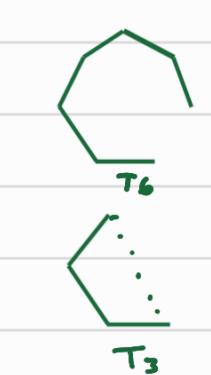
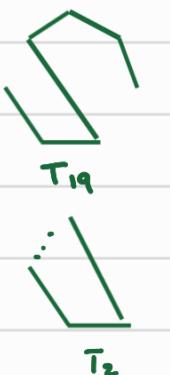
$1 \mapsto 13$   
 $2 \mapsto 17$   
 $3 \mapsto 4$   
 $4 \mapsto 9$

treeList = [13, 17, 4, 9]



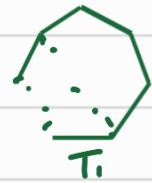
$1 \mapsto 14$   
 $2 \mapsto 18$   
 $3 \mapsto 5$   
 $4 \mapsto 10$

treeList = [14, 18, 5, 10]

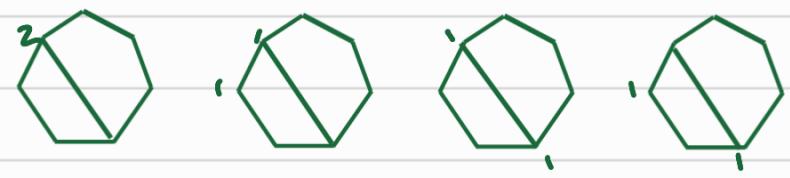


$1 \mapsto 15$   
 $2 \mapsto 19$   
 $3 \mapsto 6$   
 $4 \mapsto 11$

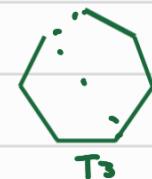
treeList = [15, 19, 6, 11]



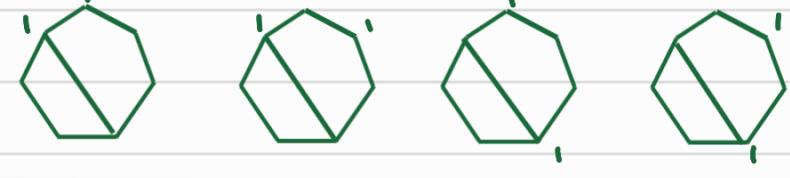
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01000001  
1010000  
1000001



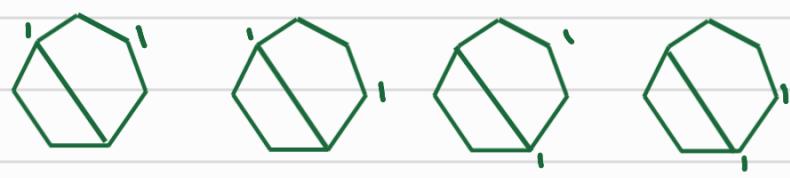
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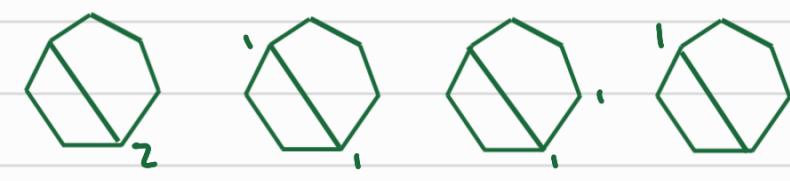
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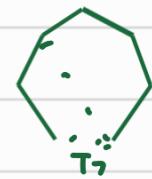
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00101000  
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0000011



00000002  
0010001  
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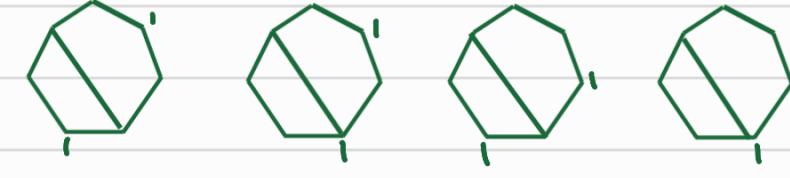
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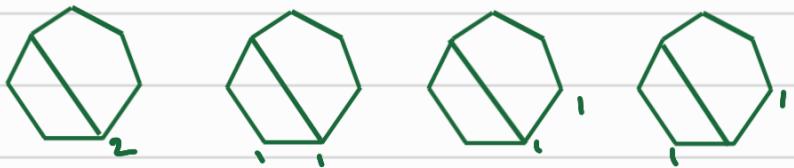
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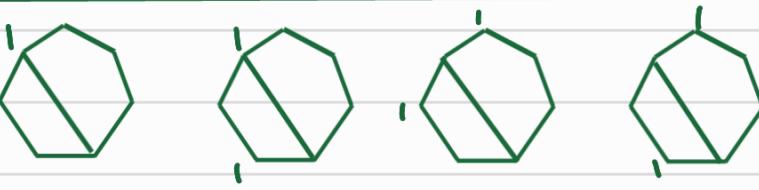
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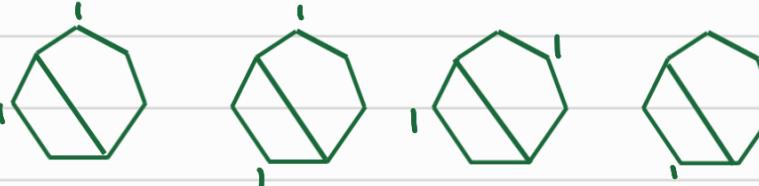
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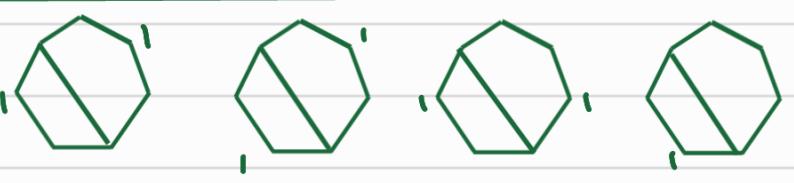
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0	0	0	0	0	1	1	1
1	0	0	0	0	1	0	0



0	1	1	0	0	0	0	0
1	0	1	0	0	0	0	0
0	1	0	1	0	0	0	0
1	0	0	1	0	0	0	0



0	1	0	1	0	0	0	0
1	0	0	1	0	0	0	0
0	1	0	0	1	0	0	0
1	0	0	0	1	0	0	0



0	1	0	0	1	0	0	0
1	0	0	0	1	0	0	0
0	1	0	0	0	1	0	0
1	0	0	0	0	0	1	0



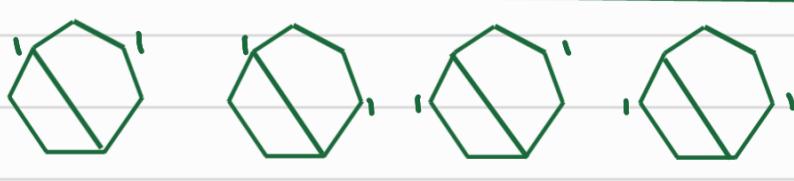
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1	0	0	0	0	1	0	0
0	1	0	0	0	0	0	1



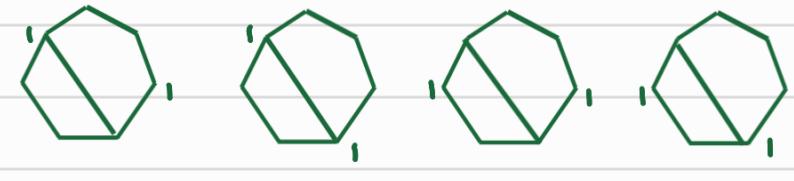
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0	1	0	1	0	0	0	0



0	0	1	1	0	0	0	0
0	0	0	0	1	0	0	0
0	1	0	1	0	0	0	0
0	1	0	0	1	0	0	0



0	0	1	0	1	0	0	0
0	0	1	0	0	1	0	0
0	1	0	0	1	0	0	0
0	1	0	0	0	0	1	0



0	0	1	0	0	1	0	0
0	0	1	0	0	0	1	0
0	1	0	0	1	0	0	0
0	1	0	0	0	0	0	1

