

1

1

fn \rightarrow *fn_new*

fn \rightarrow *fn_new*

fn_new → *fn_ql*

fn_new → *fn_ql*

-	F 0	1 STATES
-	1S	1S
-	CFP FOR F 0	1 STATES 1 PARENTS
-	... 6 ...	... 6 ...
-	V(1K) FOR F 0	1 STATES
-	1S 1S 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000	1S 1S 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000
-	END	END

flcross:

fn

fn -> fn_new

fn_new -> fn_ql

.	F 1 1 STATES	F 1 1 STATES	F 1 1 STATES
.	2F	2F	2F
.	CFP FOR F 0 1 STATES 1 PARENTS	CFP FOR F 0 1 STATES 1 PARENTS	CFP FOR F 0 1 STATES 1 PARENTS
.	... 6 ...	... 6 ...	... 6 ...
.	V (1K) FOR F 1 1 STATES	V (1K) FOR F 1 1 STATES	V (1K) FOR F 1 1 STATES
.	2F 2F 1.224745 1.224745 1.224745 1.224745 1.224745 1.224745 1.224745	2F 2F 1.224745 1.224745 1.224745 1.224745 1.224745 1.224745 1.224745	2F 2F 1.224745 1.224745 1.224745 1.224745 1.224745 1.224745 1.224745
.	END	END	END

*f**f*
$$fn \rightarrow fn_new$$

fn_new → *fn_ql*

	F 2 7 STATES								F 2 7 STATES								F 2 7 STATES																			
	3P	3F	3H	1S	1D	1G	1I		3P	3F	3H	1S	1D	1G	1I		3P	3F	3H	1S	1D	1G	1I													
	CFP FOR F 2				7 STATES				1 PARENTS				CFP FOR F 2				7 STATES				1 PARENTS				CFP FOR F 2				7 STATES				1 PARENTS			
	... 68 ...								... 68 ...								... 68 ...																
	3F	1G	-38.141184		8.090556		-10.575741	-0.165831	0.156085	-0.030749		3F	1G	-38.141184		8.090556		-10.575741	-0.165831	0.156085	-0.030749		3F	1G	-38.141184		8.090556		-10.575741	-0.165831	0.156085	-0.030749				
	3H	3H	-101.601915		21.102453		11.063005	0.535614	0.216221	-0.022919		3H	3H	-101.601915		21.102453		11.063005	0.535614	0.216221	-0.022919		3H	3H	-101.601915		21.102453		11.063005	0.535614	0.216221	-0.022919				
	3H	1G	42.058291		-15.533488		-6.250511	0.263523	-0.122687	-0.029318		3H	1G	42.058291		-15.533488		-6.250511	0.263523	-0.122687	-0.029318		3H	1G	42.058291		-15.533488		-6.250511	0.263523	-0.122687	-0.029318				
	3H	1I	-41.004614		0.708200		-8.031265	-0.214820	0.166612	-0.035657		3H	1I	-39.517403		-12.631662		-0.636162	0.099148	-0.004097	0.01030		3H	1I	-39.517403		-12.631662		-0.636162	0.099148	-0.004097	0.01030				
	END								END								END																			

f3cross:

fn

fn -> fn_new

fn_new -> fn_ql

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	4S	4D	4F	4G	4I	2P	2D1	2D2	2F1	2F2	2G1	2G2	2H1	2H2	2I	2K	2L		4S	4D	4F	4G	4I	2P	2D1	2D2	2F1	2F2	2G1	2G2	2H1	2H2	2I	2K	2L		4S	4D	4F	4G	4I	2P	2D1	2D2	2F1	2F2	2G1	2G2	2H1	2H2	2I	2K	2L																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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f4cross:

fn		fn -> fn_new		fn_new -> fn_ql	
	F 4 47 STATES	F 4 47 STATES	F 4 47 STATES	F 4 47 STATES	
	5S 5D 5F 5G 5I 3P1 3P2 3P3 3D1 3D2 3F1 3F2 3F3 3F4 3G1 3G2 3G3 3H1 3H2 3H3 3H4 3I1 3I2 3K1 3K2 3L 3M 1S1 1S2 1D1 1D2 1D3 1D4 1F 1G1 1G2 1G3 1G4 1H1 1H2				
	... 1520 ...	... 1520 ...	... 1520 ...	... 1520 ...	
	3P1 3D2 -4.254745 -19.081886 -21.156506 -0.236375 -0.058605 0.131486	3P1 3D2 -4.254745 -19.081886 -21.156506 -0.236375 -0.058605 0.131486	3P1 3D2 -4.254745 -19.081886 -21.156506 -0.236375 -0.058605 0.131486	3P1 3D2 -4.254745 -19.081886 -21.156506 -0.236375 -0.058605 0.131486	
	3P1 1S1 13.168142 0.774597 0.352089 -0.421725 -0.191693 -0.052663	3P1 1S1 13.168142 0.774597 0.352089 -0.421725 -0.191693 -0.052663	3P1 1S1 13.168142 0.774597 0.352089 -0.421725 -0.191693 -0.052663	3P1 1S1 13.168142 0.774597 0.352089 -0.421725 -0.191693 -0.052663	
	3P1 1S2 9.082950 6.440637 5.930189 -0.100922 -0.065891 -0.078594	3P1 1S2 9.082950 6.440637 5.930189 -0.100922 -0.065891 -0.078594	3P1 1S2 9.082950 6.440637 5.930189 -0.100922 -0.065891 -0.078594	3P1 1S2 9.082950 6.440637 5.930189 -0.100922 -0.065891 -0.078594	
	3P1 1D1 -14.405093 -7.832433 -6.249016 -0.088244 -0.278011 -0.093096	3P1 1D1 -14.405093 -7.832433 -6.249016 -0.088244 -0.278011 -0.093096	3P1 1D1 -14.405093 -7.832433 -6.249016 -0.088244 -0.278011 -0.093096	3P1 1D1 -14.405093 -7.832433 -6.249016 -0.088244 -0.278011 -0.093096	
	3P1 1D2 -5.396457 -4.002023 -0.373962 -0.211489 -0.066552 0.071103	3P1 1D2 -5.396457 -4.002023 -0.373962 -0.211489 -0.066552 0.071103	3P1 1D2 -5.396457 -4.002023 -0.373962 -0.211489 -0.066552 0.071103	3P1 1D2 -5.396457 -4.002023 -0.373962 -0.211489 -0.066552 0.071103	
	3P1 1D4 -15.378108 0.155334 2.612441 0.366145 0.173154 0.067891	3P1 1D4 -15.378108 0.155334 2.612441 0.366145 0.173154 0.067891	3P1 1D4 -15.378108 0.155334 2.612441 0.366145 0.173154 0.067891	3P1 1D4 -15.378108 0.155334 2.612441 0.366145 0.173154 0.067891	
	3P2 3P2 -24.066665 10.299993 35.454548 0.261481 -0.175253 0.131443	3P2 3P2 -24.066665 10.299993 35.454548 0.261481 -0.175253 0.131443	3P2 3P2 -24.066665 10.299993 35.454548 0.261481 -0.175253 0.131443	3P2 3P2 -24.066665 10.299993 35.454548 0.261481 -0.175253 0.131443	
	... 227 ...	... 227 ...	... 227 ...	... 227 ...	
	3M 1L2 65.909278 10.107972 -11.091995 0.468607 0.120291 -0.178379	3M 1L2 65.909278 10.107972 -11.091995 0.468607 0.120291 -0.178379	3M 1L2 65.909278 10.107972 -11.091995 0.468607 0.120291 -0.178379	3M 1L2 65.909278 10.107972 -11.091995 0.468607 0.120291 -0.178379	
	3M 1N 55.637890 7.720087 10.881103 0.534533 -0.102758 -0.022872	3M 1N 55.637890 7.720087 10.881103 0.534533 -0.102758 -0.022872	3M 1N 55.637890 7.720087 10.881103 0.534533 -0.102758 -0.022872	3M 1N 55.637890 7.720087 10.881103 0.534533 -0.102758 -0.022872	
	END	END	END	END	

fn	fn -> fn_new																											fn_new -> fn_ql																																																																																			
F 5 73 STATES																											F 5 73 STATES																											F 5 73 STATES																																																									
6P 6F 6H 4S 4P1 4P2 4D1 4D2 4D3 4F1 4F2 4F3 4F4 4G1 4G2 4G3 4G4 4H1 4H2 4H3	6P 6F 6H 4S 4P1 4P2 4D1 4D2 4D3 4F1 4F2 4F3 4F4 4G1 4G2 4G3 4G4 4H1 4H2 4H3	6P 6F 6H 4S 4P1 4P2 4D1 4D2 4D3 4F1 4F2 4F3 4F4 4G1 4G2 4G3 4G4 4H1 4H2 4H3	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4	4I1 4I2 4I3 4K1 4K2 4L 4M 2P1 2P2 2P3 2P4 2D1 2D2 2D3 2D4 2D5 2F1 2F2 2F3 2F4

[illegible]

[illegible]

f11cross:

fn

fn -> fn_new

fn_new -> fn_ql

F 11 17 STATES																	F 11 17 STATES																	F 11 17 STATES																									
4S	4D	4F	4G	4I	2P	2D1	2D2	2F1	2F2	2G1	2G2	2H1	2H2	2I	2K	2L	4S	4D	4F	4G	4I	2P	2D1	2D2	2F1	2F2	2G1	2G2	2H1	2H2	2I	2K	2L	4S	4D	4F	4G	4I	2P	2D1	2D2	2F1	2F2	2G1	2G2	2H1	2H2	2I	2K	2L									
CFP FOR F 11					47 STATES					17 PARENTS							CFP FOR F 11					47 STATES					17 PARENTS							CFP FOR F 11					47 STATES					17 PARENTS															
... 380 380 380 ...																									
-0.075400					11007008					0.044087					11011012					-0.452267					11013014					-0.075400					11007008					0.044087					11011012					-0.452267					11013014				
END																	END																	END																									
MK,PK FOR F 11					17 STATES					MK,PK FOR F 11					17 STATES					MK,PK FOR F 11					17 STATES																																		
4S	2P	11.313709			-7.542472			1.714198			0.0			0.0			0.0			4S	2P	11.313709			-7.542472			1.714198			0.000000			-0.000000			0.000000			4S	2P	11.313709			-7.542472			1.714198			0.000000			-0.000000			0.000000		
4D	4D	-56.097135			85.324201			91.495317			0.602350			0.202371			-0.160248			4D	4D	-56.097135			85.324201			91.495317			0.602350			0.202371			-0.160248			4D	4D	-56.097135			85.324201			91.495317			0.602350			0.202371			-0.160248		
4D	4F	19.595916			-29.393869			-48.989786			0.0			0.0			0.0			4D	4F	19.595916			-29.393869			-48.989786			-0.000000			-0.000000			0.000000			4D	4F	19.595916			-29.393869			-48.989786			-0.000000			-0.000000			0.000000		
4D	2P	8.398412			-8.033263			2.821599			-0.223146			-0.055326			0.124128			4D	2P	8.398412			-8.033263			2.821599			-0.223146			-0.055326			0.124128			4D	2P	8.398412			-8.033263			2.821599			-0.223146			-0.055326			0.124128		
4D	2D1	-2.948230			-29.641666			-9.235855			0.535639			-0.233412			0.027087			4D	2D1	-2.948230			-29.641666			-9.235855			0.535639			-0.233412			0.027087			4D	2D1	-2.948230			-29.641666			-9.235855			0.535639			-0.233412			0.027087		
4D	2D2	33.872588			-19.668846			-26.115004			-0.457738			0.077761			0.084874			4D	2D2	33.872588			-19.668846			-26.115004			-0.457738			0.077761			0.084874			4D	2D2	33.872588			-19.668846			-26.115004			-0.457738			0.077761			0.084874		
4D	2F1	-20.448307			11.197882			12.392909			0.973729			0.405720			0.0			4D	2F1	-20.448307			11.197882			12.392909			0.973729			0.405720			-0.000000			4D	2F1	-20.448307			11.197882			12.392909			0.973729			0.405720			-0.000000		
4D	2F2	-0.000002			-38.405949			-58.788467			0.000000			0.000000			0.000000			4D	2F2	-0.000002			-38.405949			-58.788467			0.000000			0.000000			0.000000			4D	2F2	-0.000002			-38.405949			-58.788467			0.000000			0.000000			0.000000		
4F	4F	-151.846040			-3.944053			6.274629			0.284848			0.159356			0.134073			4F	4F	-151.846040			-3.944053			6.274629			0.284848			0.159356			0.134073			4F	4F	-151.846040			-3.944053			6.274629			0.284848			0.159356			0.134073		
4F	4G	38.535695			49.823924			38.040283			0.333024			0.082568			-0.185249			4F	4G	38.535695			49.823924			38.040283			0.333024			0.082568			-0.185249			4F	4G	38.535695			49.823924			38.040283			0.333024			0.082568			-0.185249		
4F	2D1	23.186202			-20.977988			-14.052246			0.0			0.0			0.0			4F	2D1	23.186202			-20.977988			-14.052246			0.000000			-0.000000			-0.000000			4F	2D1	23.186202			-20.977988			-14.052246			0.000000			-0.000000			-0.000000		
4F	2D2	-7.399699			-28.902071			-5.503906			0.411094			-0.284538			0.114338			4F	2D2	-7.399699			-28.902071			-5.503906			0.411094			-0.284538			0.114338			4F	2D2	-7.399699			-28.902071			-5.503906			0.411094			-0.284538			0.114338		
4F	2F1	-19.402174			-3.527668			0.801742			0.254776			0.142532			0.119919			4F	2F1	-19.402174			-3.527668			0.801742			0.254776			0.142532			0.119919			4F	2F1	-19.402174			-3.527668			0.801742			0.254776			0.142532			0.119919		
4F	2F2	-22.751068			-11.845597			-0.256397			-0.114904			-0.114904			0.140617			4F	2F2	-22.751068			-11.845597			-0.256397			-0.114904			-0.114904			0.140617			4F	2F2	-22.751068			-11.845597			-0.256397			-0.114904			-0.114904			0.140617		
... 8 8 8 ...																									
4G	2H2	-39.572828			-10.928856			-15.147899			0.439698			-0.026841			-0.124004			4G	2H2	-39.572828			-10.928856			-15.147899			0.439698			-0.026841			-0.124004			4G	2H2	-39.572828			-10.928856			-15.147899			0.439698			-0.026841			-0.124004		
4I	4I	-311.717449			39.307475			30.332407			1.228993			0.530932			0.062149			4I	4I	-311.717449			39.307475			30.332407			1.228993			0.530932			0.062149			4I	4I	-311.717449			39.307475			30.332407			1.228993			0.530932			0.062149		
4I	2H1	18.696404			-19.675002			1.067921			0.396590			-0.207582			0.050910			4I	2H1	18.696404			-19.675002			1.067921			0.396590			-0.207582			0.050910			4I	2H1	18.696404			-19.675002			1.067921			0.396590			-0.207582			0.050910		
4I	2I	-61.355065			13.961230			17.395113			-0.409034			-0.033292			0.167067			4I	2H2	-61.355065			13.961230			17.395113			-0.409034			-0.033292			0.167067			4I	2H2	-61.355065			13.961230			17.395113			-0.409034			-0.033292			0.167067		
4I	2K	-49.290519			-16.687699			4.230274			-0.207738			-0.040580			0.105860			4I	2I	-49.290519			-16.687699			4.230274			-0.207738			-0.040580			0.105860			4I	2I	-49.290519			-16.687699			4.230274			-0.207738			-0.040580			0.105860		
4I	2L	70.230096			17.181956			15.206329			0.229510			-0.092468			0.004910			4I	2K	70.230096			17.181956			15.206329			0.229510			-0.092468			0.004910			4I	2K	70.230096			17.181956			15.206329			0.229510			-0.092468			0.004910		
4I	2L	0.000000			0.000000			0.000000			0.000000			0.000000			0.000000			4I	2L	0.000000			0.000000			0.000000			0.000000			0.000000			0.000000			4I	2L	0.000000			0.000000			0.000000			0.000000								
2P	2P	-13.999999			-9.000003			19.090912			0.288889			-0.227273			0.135975			2P	2P	-13.999999			-9.000003			19.090912			0.288889			-0.227273			0.135975			2P	2P	-13.999999			-9.000003			19.090912			0.288889			-0.227273			0.135975		
2P	2D1	-13.955371			9.954180			-2.528468			0.059638			0.014786			-0.033175			2P	2D1	-13.955371			9.954180			-2.528468			0.059638			0.014786			-0.033175			2P	2D1	-13.955371			9.954180			-2.528468			0.059638			0.014786			-0.033175		
2P	2D2	3.363671			-3.771386			-12.138873			0.186871			0.046332			-0.103949			2P	2D2	3.363671			-3.771386			-12.138873			0.186871			0.046332			-0.103949			2P	2D2	3.363671			-3.771386			-12.138873			0.186871			0.046332			-0.103949		
2D1	2D1	-33.562314			9.859998			-12.041861			0.016090			0.236083			-0.144786			2D1	2D1	-33.562314			9.859998			-12.041861			0.016090			0.236083			-0.144786			2D1	2D1	-33.562314			9.859998			-12.041861			0.016090			0.236083			-0.144786		
2D1	2D2	-20.307700			13.249307			17.234819			0.024467			-0.034825			0.022684			2D1	2D2	-20.307700			13.249307			17.234819			0.024467			-0.034825			0.022684			2D1	2D2	-20.307700			13.249307			17.234819			0.024467			-0.034825			0.022684		
2D1	2F1	-0.780719			-4.033720			-8.398651			0.260240			0.108433			0.0			2D1	2F1	-0.780719			-4.033720			-8.398651			0.260240			0.108433			0.000000			2D1	2F1	-0.780719			-4.033720			-8.398651			0.260240			0.108433			0.000000		
2D1	2F2	5.492852			29.766814			35.168881			0.0			0.0			0.0			2D1	2F2	5.492852			29.766814			35.168881			-0.000000			-0.000000			-0.000000			2D1	2F2	5.492852			29.766814			35.168881			-0.000000			-0.000000			-0.000000		
2D2	2D2	-10.711830			40.769997			36.811079			-0.378830			0.168421			0.048042			2D2	2D2	-10.711830			40.769997			36.811079			-0.378830			0.168421			0.048042			2D2	2D2	-10.711830			40.769997			36.811079			-0.378830			0.168421			0.048042		
2D2	2F1	-17.192097			-15.493273			-15.938051			0.207634			0.135563			0.161699			2D2	2F1	-17.192097			-15.493273			-15.938051			0.207634			0.135563			0.161699			2D2	2F1	-17.192097			-15.493273			-15.938051			0.207634			0.135563			0.161699		
2D2	2F2	-18.486201			38.558791			48.750830			0.495799			0.006402			-0.172371			2D2	2F2	-18.486201			38.558791			48.750830			0.495799			0.006402			-0.172371			2D2	2F2	-18.486201			38.558791			48.750830			0.495799			0.006402			-0.172371		
2F1	2F1	-21.202723			-1.247219			-0.566918			0.679041			0.308655			0.084795			2F1	2F1	-21.202723			-1.247219			-0.566918			0.679041			0.308655			0.084795			2F1	2F1	-21.202723			-1.247219			-0.566918			0.679041			0.308655			0.084795		
2F1	2F2	23.399902			8.509056			7.493768			-0.519998			-0.260536			-0.144628			2F1	2F2	23.399902			8.509056			7.493768			-0.519998			-0.260536			-0.144628			2F1	2F2	23.399902			8.509056														

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	F 12 7 STATES								F 12 7 STATES								F 12 7 STATES																			
	3P	3F	3H	1S	1D	1G	1I		3P	3F	3H	1S	1D	1G	1I		3P	3F	3H	1S	1D	1G	1I													
	CFP FOR F 12				17 STATES				7 PARENTS				CFP FOR F 12				17 STATES				7 PARENTS				CFP FOR F 12				17 STATES				7 PARENTS			
	... 72 ...								... 72 ...								... 72 ...													
	3H	-0.909137			0.0		0.0		0.0		0.0		0.0		0.0		3H	-0.909137			0.0		0.0		0.0		0.0		0.0							
	1S	0.0			0.0		0.0		0.0		0.0		0.0		0.0		1S	0.0			0.0		0.0		0.0		0.0		0.0							
	1D	-1.111168			0.0		0.0		0.0		0.0		0.0		0.0		1D	-1.111168			0.0		0.0		0.0		0.0		0.0							
●	1G	0.0			0.0		0.0		0.0		0.0		0.0		0.0		1G	-0.404061			0.0		0.0		0.0		0.0		0.0							
	1I	0.707107			0.0		0.0		0.0		0.0		0.0		0.0		1I	0.707107			0.0		0.0		0.0		0.0		0.0							
	END								END								END																			
	MK,PK FOR F 12				7 STATES				MK,PK FOR F 12				7 STATES				MK,PK FOR F 12				7 STATES															
	... 5 ...								... 5 ...								... 5 ...													
	3F	1G	-38.141184			8.090556		-10.575741		-0.165831		0.156085		-0.030749		3F	1G	-38.141184			8.090556		-10.575741		-0.165831		0.156085		-0.030749							
	3H	3H	-101.601915			21.102453		11.063005		0.535614		0.216221		-0.022919		3H	3H	-101.601915			21.102453		11.063005		0.535614		0.216221		-0.022919							
	3H	1G	42.058291			-15.533488		-6.250511		0.263523		-0.122687		-0.029318		3H	1G	42.058291			-15.533488		-6.250511		0.263523		-0.122687		-0.029318							
●	3H	1I	-41.004614			0.708200		-8.031265		-0.214820		0.166612		-0.035657		3H	1I	-39.517403			-12.631662		-0.636162		0.099148		-0.004097		0.01030							
	END								END								END																			

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	F 13	1 STATES		F 13	1 STATES		F 13	1 STATES	
	2F			2F			2F		
	CFP FOR F 13	7 STATES	1 PARENTS	CFP FOR F 13	7 STATES	1 PARENTS	CFP FOR F 13	7 STATES	1 PARENTS
	... 7 ...			... 7 ...			... 7 ...		
	V (1K) FOR F 13	1 STATES		V (1K) FOR F 13	1 STATES		V (1K) FOR F 13	1 STATES	
	2F 2F	1.224745 -1.224745	1.224745 -1.224745	1.224745 -1.224745	1.224745 -1.224745	1.224745	2F 2F	1.224745 -1.224745	1.224745 -1.224745
	END			END			END		

