Tables for the algorithm ReducedTableOfMarks, without improvements (Case $G=S_{12}$)

We have a chain of groups $H \le U \le G := S_{12}$. The runtimes are that of **ReducedTableOfMarks** without **IFP-Order**, **IFP-Intransitive** and **IFP-Transitive**. The style of the tables is described in the bachelor thesis.

Prop.	Chain	Prop.	#	Σ	time Fix	time Split
U	length/Indices	H	Fix	ti-		
				me		
D[2],	6, [20, 144,	D[1],	0	3	[1, 0, 0, 0, 0	[2, 0, 0, 0, 0
5, II	252, 11, 12]	4, II]]
D[2],	6, [20, 144,	D[2],	80	126	[3, 3, 48, 35,	[1, 2, 10, 4, 1
5, II	252, 11, 12]	5, II			19]]
D[2],	6, [20, 144,	D[3],	0	3759	[1, 6, 516,	[1, 1, 5, 22, 0
5, II	252, 11, 12]	3, II			3207, 0]]
D[3],	9, [12, 20, 7,	D[1],	0	15	[2, 0, 0, 0, 0,	[13, 0, 0, 0,
3, II	8, 9, 10, 11,	4, II			0, 0, 0]	0, 0, 0, 0]
	12]					
D[3],	9, [12, 20, 7,	D[2],	0	4	[0, 0, 3, 0, 0,	[0, 0, 1, 0, 0,
3, II	8, 9, 10, 11,	5, II			0, 0, 0]	0, 0, 0]
	12]					
D[3],	9, [12, 20, 7,	D[3],	8640	2726	[2, 7, 21,	[0, 1, 0, 1, 1,
3, II	8, 9, 10, 11,	3, II			77, 189, 336,	[2, 4, 4]
	12]				986, 1095]	
D[3],	9, [12, 20, 7,	D[4],	0	57	[2, 5, 20, 14,	[0, 1, 0, 1, 1,
3, II	8, 9, 10, 11,	2, II			13, 0, 0, 0]	0, 0, 0]
	12]					
D[3],	9, [12, 20, 7,	D[6],	0	2	[1, 0, 0, 0, 0,	[1, 0, 0, 0, 0,
3, II	8, 9, 10, 11,	4, II			0, 0, 0]	0, 0, 0]
	12]					
D[3],	9, [12, 20, 7,	D[7],	8640	2775	[2, 6, 20,	[1, 1, 0, 0, 0,
3, II	8, 9, 10, 11,	3, II			66, 211, 341,	1, 3, 3]
	12]				981, 1139]	
D[4],	9, [8, 6, 15,	D[1],	0	2	[1, 0, 0, 0, 0,	[1, 0, 0, 0, 0,
2, II	28, 9, 10, 11,	4, II			0, 0, 0]	0, 0, 0]
	12]					

D[4],	9, [8, 6, 15,	D[2],	0	6	[1, 1, 1, 0, 0,	[1, 1, 1, 0, 0,
2, II	28, 9, 10, 11,	5, II			0, 0, 0]	0, 0, 0]
,	12]	,			, , -	, , -
D[4],	9, [8, 6, 15,	D[3],	0	1196	[1, 6, 40, 65,	[1, 1, 0, 1, 3,
2, II	28, 9, 10, 11,	3, II			701, 375, 0, 0	2, 0, 0]
	12]]	
D[4],	9, [8, 6, 15,	D[4],	4608	588	[2, 6, 8, 14,	[1, 0, 1, 0, 1,
2, II	28, 9, 10, 11,	2, II			60, 90, 121,	0, 1, 1]
	12]				282]	
D[4],	9, [8, 6, 15,	D[6],	0	2	[1, 0, 0, 0, 0,	[1, 0, 0, 0, 0,
2, II	28, 9, 10, 11,	4, II			0, 0, 0]	0, 0, 0]
	12]					
D[4],	9, [8, 6, 15,	D[7],	0	1199	[2, 8, 26, 67,	[0, 1, 0, 0, 2,
2, II	28, 9, 10, 11,	3, II			708, 384, 0, 0	1, 0, 0]
	12]]	
D[5],	12, [2, 3, 4,	D[1],	0	2	[1, 0, 0, 0, 0,	[1, 0, 0, 0, 0,
1, Pr	5, 6, 7, 8, 9,	4, II			0, 0, 0, 0, 0, 0	0, 0, 0, 0, 0, 0
	10, 11, 12]]]
D[5],	12, [2, 3, 4,	D[2],	0	11	[2, 3, 3, 0, 0,	[0, 2, 1, 0, 0,
1, Pr	5, 6, 7, 8, 9,	5, II			0, 0, 0, 0, 0, 0	0,0,0,0,0,0
	10, 11, 12]]]
D[5],	12, [2, 3, 4,	D[3],	0	954	[2, 7, 20,	[0, 0, 1, 1, 2,
1, Pr	5, 6, 7, 8, 9,	3, II			81, 188, 346,	1, 1, 0, 0, 0, 0
	10, 11, 12]				304, 0, 0, 0, 0]
]	_
D[6],	7, [64, 3, 3,	D[2],	0	12	[4, 3, 0, 0, 0,	[3, 2, 0, 0, 0,
4, II	70, 45, 66]	5, II			0]	0]
D[6],	7, [64, 3, 3,	D[3],	0	598	[6, 67, 436,	[0, 2, 3, 2, 0,
4, II	70, 45, 66]	3, II	200:	= 00=	82, 0, 0]	0]
D[6],	7, [64, 3, 3,	D[4],	2304	7627	[9, 30, 331,	[2, 1, 2, 0, 1,
4, II	70, 45, 66]	2, II			110, 187,	34]
Dial	7 5 04 0 0	Dial	100	5 0	6920]	F0.1.1.1.0
D[6],	7, [64, 3, 3,	D[6],	128	52	[9, 7, 12, 0,	[2, 1, 1, 1, 0,
4, II	70, 45, 66]	4, II		24	1, 17]	1]
D[6],	7, [64, 3, 3,	D[20],	0	24	[22, 0, 0, 0,	[2, 0, 0, 0, 0,
4, II	70, 45, 66]	108,			0, 0]	0]
		IT				

D[6],	7, [64, 3, 3,	D[22],	0	14	[7, 3, 0, 0, 0,	[3, 1, 0, 0, 0,
4, II	70, 45, 66]	7560,			0]	01
,	, , -	II '				_
D[7],	9, [12, 20, 7,	D[1],	0	4	[2, 0, 0, 0, 0,	[2, 0, 0, 0, 0,
3, II	8, 9, 10, 11,	4, II			0, 0, 0]	0, 0, 0]
	12]					
D[7],	9, [12, 20, 7,	D[3],	8640	2829	[2, 7, 20,	[0, 2, 1, 1, 1,
3, II	8, 9, 10, 11,	3, II			79, 196, 348,	1, 14, 14]
	12]				1004, 1139]	
D[7],	9, [12, 20, 7,	D[6],	0	2	[1, 0, 0, 0, 0,	[1, 0, 0, 0, 0,
3, II	8, 9, 10, 11,	4, II			0, 0, 0]	0, 0, 0]
	12]					
D[7],	9, [12, 20, 7,	D[7],	8640	2863	[1, 15, 19,	[0, 1, 1, 0, 1,
3, II	8, 9, 10, 11,	3, II			77, 205, 348,	1, 12, 4]
	12]				1011, 1167]	
D[12],	6, [192, 15,	D[2],	0	65	[31, 1, 4, 0, 0	[27, 1, 1, 0, 0
12, II	15, 2, 462]	5, II]]
D[12],	6, [192, 15,	D[4],	2304	7517	[39, 3, 54,	[14, 0, 1, 2,
12, II	15, 2, 462]	2, II			160, 7214]	30]
D[12],	6, [192, 15,	D[6],	0	136	[40, 2, 10, 5,	[15, 0, 0, 0, 3
12, II	15, 2, 462]	4, II			61]]
D[12],	6, [192, 15,	D[7],	0	1516	[42, 3, 53,	[16, 0, 0, 1,
12, II	15, 2, 462]	3, II			18, 1371]	12]
D[12],	6, [192, 15,	D[8],	0	59	[41, 0, 0, 0, 0	[18, 0, 0, 0, 0
12, II	15, 2, 462]	16, II]]
D[12],	6, [192, 15,	D[12],	16	105	[44, 0, 3, 7,	[15, 1, 0, 0, 4
12, II	15, 2, 462]	12, II			31]]
D[12],	6, [192, 15,	D[20],	0	64	[44, 1, 0, 0, 0	[19, 0, 0, 0, 0
12, II	15, 2, 462]	108,]]
		IT				
D[12],	6, [192, 15,	D[30],	0	66	[51, 0, 0, 0, 0]	[15, 0, 0, 0, 0
12, II	15, 2, 462]	30240,]]
		II				
D[12],	6, [192, 15,	D[40],	0	77	[61, 0, 0, 0, 0	[16, 0, 0, 0, 0
12, II	15, 2, 462]	7257600	,]]
		II				

D[15],	6, [2, 15, 3,	D[1],	0	75	[5, 36, 1, 6, 1	[4, 14, 1, 6, 1
384,	210, 66]	4, II]]
II						
D[15],	6, [2, 15, 3,	D[2],	0	30	[5, 19, 0, 0, 0	[0, 6, 0, 0, 0
384,	210, 66]	5, II]]
II						
D[15],	6, [2, 15, 3,	D[3],	270	384	[12, 256, 35,	[2, 5, 0, 0, 0
384,	210, 66]	3, II			54, 20]]]
II						
D[15],	6, [2, 15, 3,	D[4],	984	701	[9, 178, 38,	[3, 7, 0, 1, 0]
384,	210, 66]	2, II			315, 150]]]
II						
D[15],	6, [2, 15, 3,	D[5],	12474	001286	4[5, 851,	[3, 13, 613,
384,	210, 66]	1, Pr			2255, 36159,	560, 1102]
II		Drai			71303]	
D[15],	6, [2, 15, 3,	D[6],	0	70	[9, 29, 1, 4, 1	[2, 24, 0, 0, 0
384,	210, 66]	4, II]]]
II	0.50.47.0	DIE	250	205	F 0 004 00	F 0 4 0 0 0
D[15],	6, [2, 15, 3,	D[7],	270	327	[8, 224, 26,	[3, 4, 0, 0, 0
384,	210, 66]	3, II			47, 15]]
II	0.50.15.0	Dioi	0	F 0	F 0 4 7 0 0 0	F 0 0 0 0 0
D[15],	6, [2, 15, 3,	D[8],	0	58	[8, 45, 0, 0, 0	[2, 3, 0, 0, 0]
384,	210, 66]	16, II			J]
II	0.50.15.0	DIOI	0		F O O O O	F 0 0 0 0 0
D[15],	6, [2, 15, 3,	D[9],	0	11	[9, 0, 0, 0, 0	[2, 0, 0, 0, 0
384,	210, 66]	12, II			J]
II	0 [0 17 0	D[10]	0	100	F 11 100 0	[0,0,0,0]
D[15],	6, [2, 15, 3,	D[10],	0	168	[11, 133, 9,	[2, 3, 0, 0, 0]
384, II	210, 66]	36, II			10, 0]]
	6, [2, 15, 3,	D[11]	0	56	[6 24 0 0 0	[3, 13, 0, 0, 0
D[15], 384,	210, 66]	D[11], 16, II	0	50	[6, 34, 0, 0, 0	[13, 13, 0, 0, 0]
II	210,00]	10, 11			J	1
D[15],	6, [2, 15, 3,	D[12],	0	9	[7, 0, 0, 0, 0	[2, 0, 0, 0, 0
384,	210, 66]	12, II		9	1	[2, 0, 0, 0, 0]
II	210,00]	12, 11			1	1
_11						

D[15], 384, II	6, [2, 15, 3, 210, 66]	D[13], 192, IT	0	4	[4, 0, 0, 0, 0	[0, 0, 0, 0, 0
D[15], 384, II	6, [2, 15, 3, 210, 66]	D[14], 108, IT	0	10	[8,0,0,0,0	[2, 0, 0, 0, 0
D[15], 384, II	6, [2, 15, 3, 210, 66]	D[15], 384, II	2	45	[9, 18, 1, 1, 1]	[2, 13, 0, 0, 0]
D[15], 384, II	6, [2, 15, 3, 210, 66]	D[16], 576, II	0	58	[10, 43, 0, 0, 0]	[2, 3, 0, 0, 0
D[15], 384, II	6, [2, 15, 3, 210, 66]	D[17], 384, II	2	37	[9, 20, 0, 2, 0]	[2, 4, 0, 0, 0
D[15], 384, II	6, [2, 15, 3, 210, 66]	D[18], 576, II	0	61	[7, 48, 0, 0, 0	[2, 4, 0, 0, 0
D[20], 108, IT	4, [12, 800, 462]	D[1], 4, II	0	649	[31, 563, 0]	[29, 26, 0]
D[20], 108, IT	4, [12, 800, 462]	D[2], 5, II	0	164	[33, 99, 0]	[10, 22, 0]
D[20], 108, IT	4, [12, 800, 462]	D[3], 3, II	1440	1456	[46, 1183, 198]	[12, 15, 2]
D[20], 108, IT	4, [12, 800, 462]	D[4], 2, II	0	1803	[34, 1233, 489]	[23, 23, 1]
D[20], 108, IT	4, [12, 800, 462]	D[5], 1, Pr	44352	0 3 4064	2[29, 22761, 313552]	[5, 333, 3962]
D[20], 108, IT	4, [12, 800, 462]	D[8], 16, II	0	52	[38, 0, 0]	[14, 0, 0]

D[20], 108, IT	4, [12, 800, 462]	D[9], 12, II	0	175	[34, 60, 0]	[55, 26, 0]
D[20], 108, IT	4, [12, 800, 462]	D[10], 36, II	0	761	[41, 676, 0]	[18, 26, 0]
D[20], 108, IT	4, [12, 800, 462]	D[11], 16, II	0	59	[37, 0, 0]	[22, 0, 0]
D[20], 108, IT	4, [12, 800, 462]	D[12], 12, II	0	144	[48, 73, 0]	[11, 12, 0]
D[20], 108, IT	4, [12, 800, 462]	D[15], 384, II	0	167	[54, 75, 0]	[17, 21, 0]
D[20], 108, IT	4, [12, 800, 462]	D[16], 576, II	0	391	[52, 308, 0]	[15, 16, 0]
D[20], 108, IT	4, [12, 800, 462]	D[17], 384, II	0	159	[62, 71, 0]	[12, 14, 0]
D[20], 108, IT	4, [12, 800, 462]	D[18], 576, II	0	380	[52, 303, 0]	[13, 12, 0]
D[24], 1320, Pr	2, [362880]	D[18], 576, II	0	71938	[29964]	[41974]
D[20], 108, IT	4, [12, 800, 462]	D[20], 108, IT	36	286	[45, 196, 15	[18, 12, 0]
D[20], 108, IT	4, [12, 800, 462]	D[25], 80640, II	0	60	[49, 0, 0]	[11, 0, 0]
D[20], 108, IT	4, [12, 800, 462]	D[30], 30240, II	0	58	[40, 0, 0]	[18, 0, 0]

D[20],	4, [12, 800,	D[35],	0	156	[55, 74, 0]	[15, 12, 0]
108, IT	462]	518400, IT				
D[20],	4, [12, 800,	D[40],	0	64	[51, 0, 0]	[13, 0, 0]
108,	462]	7257600				
IT		II				
D[20],	4, [12, 800,	D[45],	0	161	[60, 79, 0]	[10, 12, 0]
108,	462]	1036800),			
IT		IT				
D[13],	3, [432, 5775]	D[4],	720	2090	[415, 1487]	[172, 16]
192,]	2, II				
IT			_			
D[13],	3, [432, 5775	D[6],	0	859	[413, 325]	[113, 8]
192,	J	4, II				
IT	0 [400 FIFT	DIEI	0	1550	F 401 000 1	F 0.70 1 7 1
D[13],	3, [432, 5775	D[7],	0	1572	[401, 886]	[270, 15]
192, IT]	3, II				
D[13],	3, [432, 5775	D[8],	0	591	[441, 34]	[110, 6]
192,]	16, II	0	991	[441, 54]	[110, 0]
IT 152,	J	10, 11				
D[13],	3, [432, 5775	D[9],	12	673	[445, 104]	[118, 6]
192,	1	12, II		•••	[,]	[[[]
IT	_	,				
D[13],	3, [432, 5775	D[10],	0	1042	[509, 406]	[113, 14]
192,]	36, II				
IT						
D[13],	3, [432, 5775	D[11],	0	607	[455, 34]	[112, 6]
192,]	16, II				
IT						
D[13],	3, [432, 5775	D[12],	12	691	[459, 104]	[121, 7]
192,]	12, II				
IT	0.5.400 8877	Didol		5 00	F F F 4 40 3	5405 51
D[13],	3, [432, 5775	D[13],	4	728	[554, 40]	[127, 7]
192,]	192,				
IT		IT				

D[01]	0.0000001	D[10]	0	71050	F 00000 1	F 41 F F F T 1
D[21],	2, [362880]	D[13],	0	71950	[30393]	[41557]
1320,		192,				
Pr		IT				
D[21],	2, [362880]	D[3],	0	67267	[24765]	[42502]
1320,		3, II				
Pr						
D[21],	2, [362880]	D[12],	0	69981	[28600]	[41381]
1320,		12, II				
Pr						
D[21],	2, [362880]	D[18],	0	71862	[29513]	[42349]
1320,		576,				
Pr		II				
D[30],	4, [2, 120, 66	D[2],	0	21	[5, 8, 0]	[4,4,0]
30240,	1	5, II			- , , -	
II	-	'				
D[30],	4, [2, 120, 66	D[4],	224	118	[6, 89, 14]	[3, 4, 2]
30240,	1	2, II			_ , , _	
II II	,	_,				
D[30],	4, [2, 120, 66	D[6],	0	30	[6, 18, 0]	[3, 3, 0]
30240,	1	4, II			[0, 10, 0]	[5, 5, 5]
II	,	1, 11				
D[30],	4, [2, 120, 66	D[7],	180	164	[7, 140, 11]	[3, 3, 0]
30240,	1, [2, 120, 00	3, II	100	101	[1,110,11]	[0, 0, 0]
II	1	0, 11				
D[30],	4, [2, 120, 66	D[8],	0	30	[7, 18, 0]	[2, 3, 0]
30240,	_	16, II	0	30	[1, 10, 0]	[2, 5, 0]
II]	10, 11				
	4 [0 100 66	D[10]	60	OC	[7 00 7]	10001
D[30],	4, [2, 120, 66	D[10],	60	96	[7, 82, 5]	[0, 2, 0]
30240,]	36, II				
II	4.50.100.00	D[10]		10	[10 0 0]	F 0 0 0 1
D[30],	4, [2, 120, 66	D[13],	0	12	[10, 0, 0]	[2, 0, 0]
30240,]	192,				
II		IT				
D[30],	4, [2, 120, 66	D[15],	0	24	[9, 10, 0]	[3, 2, 0]
30240,]	384,				
II		II				

D[30],	4, [2, 120, 66	D[17],	0	40	[9, 26, 0]	[2, 3, 0]
30240, II]	384, II				
D[30],	4, [2, 120, 66	D[19],	0	10	[7,0,0]	[3,0,0]
30240,]	192,				
II		IT				
D[30],	4, [2, 120, 66	D[21],	0	9	[7,0,0]	[2,0,0]
30240,]	1320,				
II		Pr				
D[30],	4, [2, 120, 66	D[26],	2	21	[10, 9, 0]	[2, 0, 0]
30240,]	30240,				
II		II				
D[30],	4, [2, 120, 66	D[29],	0	47	[9, 34, 0]	[2, 2, 0]
30240,]	80640,				
II		II				
D[30],	4, [2, 120, 66	D[30],	2	24	[10, 10, 0]	[2, 2, 0]
30240,]	30240,				
II		II				
D[30],	4, [2, 120, 66	D[35],	0	13	[11, 0, 0]	[2, 0, 0]
30240,]	518400,				
II		IT				
D[30],	4, [2, 120, 66	D[40],	0	27	[10, 10, 0]	[3, 4, 0]
30240,]	7257600),			
II		II				
D[40],	2, [66]	D[1],	2	9	[8]	[1]
7257600),	4, II				
II						
D[40],	2, [66]	D[2],	1	10	[8]	[2]
7257600) ,	5, II				
II		75.17		1.0		5.0.7
D[40],	2, [66]	D[4],	10	10	[8]	[2]
7257600) ,	2, II				
II						
D[40],	2, [66]	D[5],	66	17	[16]	[1]
7257600) ,	1, Pr				
II						

D[40], 2, [66] 7257600, II	D[6], 4, II	2	10	[8]	[2]
D[40], 2, [66] 7257600, II	D[10], 36, II	7	9	[7]	[2]
D[40], 2, [66] 7257600, II	D[11], 16, II	2	6	[5]	[1]
D[40], 2, [66] 7257600, II	D[16], 576, II	2	14	[12]	[2]
D[40], 2, [66] 7257600, II	D[17], 384, II	1	12	[9]	[3]
D[40], 2, [66] 7257600, II	D[18], 576, II	2	5	[5]	[0]
D[40], 2, [66] 7257600, II	D[22], 7560, II	1	9	[9]	[0]
D[40], 2, [66] 7257600, II	D[25], 80640, II	2	12	[10]	[2]
D[40], 2, [66] 7257600, II	D[30], 30240, II	1	12	[10]	[2]
D[40], 2, [66] 7257600, II	D[33], 725760, II	1	11	[10]	[1]
D[40], 2, [66] 7257600, II	D[34], 161280, II	2	24	[21]	[3]
D[40], 2, [66] 7257600, II	D[35], 518400, IT	0	14	[11]	[3]

D[40], 2, [6 7257600, II	725760, II		12	[10]	[2]
D[40], 2, [6 7257600, II	161280, II	2	11	[9]	[2]
D[40], 2, [6 7257600, II	56] D[3], 3, II	15	11	[8]	[3]
D[40], 2, [6 7257600, II	56] D[38], 518400, IT	0	11	[8]	[3]
D[40], 2, [6 7257600, II	D[39], 2177280 II	0,	10	[8]	[2]
D[40], 2, [6 7257600, II	D[40], 7257600 II),	13	[10]	[3]
D[48], 2, [1 39916800, Pr	D[30], 30240, II	0	4	[2]	[2]
D[48], 2, [39916800, Pr	D[31], 46080, IT	0	3	[3]	[0]
D[48], 2, [39916800, Pr	12] D[32], 15552, IT	0	3	[2]	[1]
D[48], 2, [1 39916800, Pr	12] D[33], 725760, II	1	3	[2]	[1]
D[48], 2, [3 39916800, Pr	[2] D[34], 161280, II	0	16	[15]	[1]
D[48], 2, [3 39916800, Pr	D[35], 518400, IT	0	2	[2]	[0]

D[48], 3991680 Pr	2, [12] 00,	D[36], 725760, II	1	3	[2]	[1]
D[48], 3991680 Pr	2, [12] 00,	D[37], 161280, II	0	1	[1]	[0]
D[48], 3991680 Pr	2, [12] 00,	D[38], 518400, IT	0	2	[2]	[0]
D[48], 3991680 Pr	2, [12] 00,	D[39], 2177280 II	0	0	[0]	[0]
D[48], 3991680 Pr	2, [12] 00,	D[40], 7257600 II	0	0	[0]	[0]
D[48], 3991680 Pr	2, [12] 00,	D[41], 1036800 IT	0	3	[3]	[0]
D[48], 3991680 Pr	2, [12] 00,	D[42], 3628800 Pr),	2	[2]	[0]
D[48], 3991680 Pr	2, [12] 00,	D[43], 2177280 II	0	2	[2]	[0]
D[48], 3991680 Pr	2, [12] 00,	D[44], 7257600 II	0	3	[3]	[0]
D[48], 3991680 Pr	2, [12] 00,	D[45], 1036800 IT	0	4	[3]	[1]
D[48], 3991680 Pr	2, [12] 00,	D[46], 3628800 Pr),	3	[2]	[1]
D[48], 3991680 Pr	2, [12] 00,	D[47], 3991680 Pr	1 00,	3	[2]	[1]

D[48], 2, [12]	D[48], 1	1	[1]	[0]
39916800,	39916800,			
Pr	Pr			