

# $M \pmod{19}$

	blocks	defect	matrix
$G :$	1	1	$19 \times 18$
	2	1	$19 \times 18$
	3	1	$19 \times 18$
	4	1	$11 \times 9$
	5	0	$293553734298_1 = \chi_7, \varphi_7$
	6	0	$3879214937598_1 = \chi_8, \varphi_8$
	7	0	$36173193327999_1 = \chi_9, \varphi_9$
	8	0	$1109944460516150_1 = \chi_{14}, \varphi_{14}$
	9	0	$8980616927734375_1 = \chi_{16}, \varphi_{17}$
	$10 = \overline{9}$	0	$8980616927734375_2 = \chi_{17}, \varphi_{16}$
	11	0	$60359800576579350_1 = \chi_{20}, \varphi_{20}$
	12	0	$251098487132187500_1 = \chi_{21}, \varphi_{21}$
	13	0	$290568421805921077_1 = \chi_{22}, \varphi_{22}$
	14	0	$336041615485626050_1 = \chi_{23}, \varphi_{23}$
	15	0	$2500435234254428856_1 = \chi_{24}, \varphi_{24}$
	16	0	$8456836343580310400_1 = \chi_{29}, \varphi_{29}$
	17	0	$31569817307122699605_1 = \chi_{33}, \varphi_{33}$
	18	0	$47377503606648784400_1 = \chi_{34}, \varphi_{34}$
	19	0	$49609712911192813665_1 = \chi_{35}, \varphi_{35}$
	20	0	$77316619273928125000_1 = \chi_{36}, \varphi_{36}$
	21	0	$155943076739182582850_1 = \chi_{38}, \varphi_{38}$
	22	0	$286243267692724486144_1 = \chi_{41}, \varphi_{42}$
	$23 = \overline{22}$	0	$286243267692724486144_2 = \chi_{42}, \varphi_{41}$
	24	0	$379913824694312370176_1 = \chi_{43}, \varphi_{43}$
	25	0	$640558364167263622626_1 = \chi_{44}, \varphi_{46}$
	$26 = \overline{25}$	0	$640558364167263622626_2 = \chi_{45}, \varphi_{45}$
	27	0	$691170144025469730622_1 = \chi_{47}, \varphi_{48}$
	$28 = \overline{27}$	0	$691170144025469730622_2 = \chi_{48}, \varphi_{47}$
	29	0	$918438233727730974720_1 = \chi_{50}, \varphi_{50}$
	30	0	$1201241700908448332364_1 = \chi_{51}, \varphi_{51}$
	31	0	$1353006807137391674268_1 = \chi_{52}, \varphi_{52}$
	32	0	$1480279477146615234375_1 = \chi_{53}, \varphi_{54}$
	$33 = \overline{32}$	0	$1480279477146615234375_2 = \chi_{54}, \varphi_{53}$
	34	0	$1768130802583126953125_1 = \chi_{55}, \varphi_{56}$
	$35 = \overline{34}$	0	$1768130802583126953125_2 = \chi_{56}, \varphi_{55}$
	36	0	$2351753641814605348320_1 = \chi_{57}, \varphi_{57}$
	37	0	$2382987417506242421875_1 = \chi_{58}, \varphi_{58}$
	38	0	$4567199176912486400000_1 = \chi_{59}, \varphi_{60}$
	$39 = \overline{38}$	0	$4567199176912486400000_2 = \chi_{60}, \varphi_{59}$
	40	0	$5578077210155766091776_1 = \chi_{61}, \varphi_{61}$

	blocks	defect	matrix
	41	0	6566555764392010419123 <sub>1</sub> = $\chi_{62}, \varphi_{62}$
	42	0	12810005542623250817856 <sub>1</sub> = $\chi_{65}, \varphi_{66}$
	43	0	31714653744947491918600 <sub>1</sub> = $\chi_{69}, \varphi_{70}$
	44	0	42940402913709544921875 <sub>1</sub> = $\chi_{71}, \varphi_{72}$
	45 = $\overline{44}$	0	42940402913709544921875 <sub>2</sub> = $\chi_{72}, \varphi_{71}$
	46	0	60683762052057587326065 <sub>1</sub> = $\chi_{73}, \varphi_{73}$
	47	0	70660346341309333984375 <sub>1</sub> = $\chi_{74}, \varphi_{76}$
	48 = $\overline{47}$	0	70660346341309333984375 <sub>2</sub> = $\chi_{75}, \varphi_{75}$
	49	0	86551489469233273849000 <sub>1</sub> = $\chi_{76}, \varphi_{77}$
	50	0	146575737439884098045700 <sub>1</sub> = $\chi_{80}, \varphi_{80}$
	51	0	149614794149226010902528 <sub>1</sub> = $\chi_{81}, \varphi_{82}$
	52 = $\overline{51}$	0	149614794149226010902528 <sub>2</sub> = $\chi_{82}, \varphi_{81}$
	53	0	161649111002260792968750 <sub>1</sub> = $\chi_{83}, \varphi_{84}$
	54 = $\overline{53}$	0	161649111002260792968750 <sub>2</sub> = $\chi_{84}, \varphi_{83}$
	55	0	191259085113459945312500 <sub>1</sub> = $\chi_{85}, \varphi_{86}$
	56 = $\overline{55}$	0	191259085113459945312500 <sub>2</sub> = $\chi_{86}, \varphi_{85}$
	57	0	218028402153522030021875 <sub>1</sub> = $\chi_{87}, \varphi_{88}$
	58	0	277540481294528814140625 <sub>1</sub> = $\chi_{92}, \varphi_{91}$
	59	0	303379038247015811718750 <sub>1</sub> = $\chi_{93}, \varphi_{92}$
	60	0	331150814995116217581480 <sub>1</sub> = $\chi_{94}, \varphi_{93}$
	61	0	351532203382732066094400 <sub>1</sub> = $\chi_{95}, \varphi_{94}$
	62	0	391009081837477378329600 <sub>1</sub> = $\chi_{96}, \varphi_{96}$
	63	0	392611651975065600000000 <sub>1</sub> = $\chi_{97}, \varphi_{97}$
	64	0	597787522207315571077947 <sub>1</sub> = $\chi_{99}, \varphi_{99}$
	65 = $\overline{64}$	0	597787522207315571077947 <sub>2</sub> = $\chi_{100}, \varphi_{98}$
	66	0	600020772685064502392907 <sub>1</sub> = $\chi_{101}, \varphi_{100}$
	67	0	1037605886984697481755304 <sub>1</sub> = $\chi_{109}, \varphi_{108}$
	68	0	1361549126105752982272875 <sub>1</sub> = $\chi_{110}, \varphi_{109}$
	69	0	1599110387863558882812500 <sub>1</sub> = $\chi_{111}, \varphi_{110}$
	70	0	1662686180483865572016128 <sub>1</sub> = $\chi_{112}, \varphi_{111}$
	71	0	2181694185821505680397072 <sub>1</sub> = $\chi_{113}, \varphi_{112}$
	72	0	2216343020913351966796875 <sub>1</sub> = $\chi_{114}, \varphi_{113}$
	73	0	2477548750555298068681032 <sub>1</sub> = $\chi_{115}, \varphi_{114}$
	74	0	3282510540283631442175104 <sub>1</sub> = $\chi_{116}, \varphi_{115}$
	75	0	3537292796538741415074900 <sub>1</sub> = $\chi_{117}, \varphi_{116}$
	76	0	4004308274823270400000000 <sub>1</sub> = $\chi_{119}, \varphi_{118}$
	77	0	4239315652979009728125000 <sub>1</sub> = $\chi_{120}, \varphi_{119}$
	78	0	5334046162969208352215625 <sub>1</sub> = $\chi_{122}, \varphi_{121}$
	79	0	5514132424881463208443904 <sub>1</sub> = $\chi_{123}, \varphi_{124}$
	80	0	5514132424881463208443904 <sub>2</sub> = $\chi_{124}, \varphi_{123}$

	blocks	defect	matrix
	81 = $\overline{80}$	0	5514132424881463208443904 <sub>3</sub> = $\chi_{125}, \varphi_{122}$
	82	0	7375892500409609408203125 <sub>1</sub> = $\chi_{127}, \varphi_{126}$
	83	0	7567151576542452425781250 <sub>1</sub> = $\chi_{128}, \varphi_{128}$
	84 = $\overline{83}$	0	7567151576542452425781250 <sub>2</sub> = $\chi_{129}, \varphi_{127}$
	85	0	785093495920794060000000 <sub>1</sub> = $\chi_{130}, \varphi_{129}$
	86	0	8394037047155083487634450 <sub>1</sub> = $\chi_{131}, \varphi_{130}$
	87	0	9479495745805305653125000 <sub>1</sub> = $\chi_{134}, \varphi_{133}$
	88	0	9592298143650890255171584 <sub>1</sub> = $\chi_{135}, \varphi_{135}$
	89 = $\overline{88}$	0	9592298143650890255171584 <sub>2</sub> = $\chi_{136}, \varphi_{134}$
	90	0	9592584386918582979657728 <sub>1</sub> = $\chi_{137}, \varphi_{136}$
	91	0	10023854998171489083984375 <sub>1</sub> = $\chi_{138}, \varphi_{137}$
	92	0	12650882100466187033706250 <sub>1</sub> = $\chi_{139}, \varphi_{139}$
	93	0	16109407269221032565630370 <sub>1</sub> = $\chi_{141}, \varphi_{140}$
	94	0	22626621365160537099927552 <sub>1</sub> = $\chi_{142}, \varphi_{141}$
	95	0	24546384719289825598186695 <sub>1</sub> = $\chi_{143}, \varphi_{142}$
	96	0	27501917609709102247187500 <sub>1</sub> = $\chi_{144}, \varphi_{143}$
	97	0	33684388830359981044531200 <sub>1</sub> = $\chi_{146}, \varphi_{145}$
	98	0	33722191327002668157047380 <sub>1</sub> = $\chi_{147}, \varphi_{146}$
	99	0	3731071521154662400000000 <sub>1</sub> = $\chi_{148}, \varphi_{147}$
	100	0	38471795739256565080575180 <sub>1</sub> = $\chi_{149}, \varphi_{148}$
	101	0	41738941151243953804687500 <sub>1</sub> = $\chi_{150}, \varphi_{149}$
	102	0	41762322738385820195625000 <sub>1</sub> = $\chi_{151}, \varphi_{150}$
	103	0	42001454087954515167503490 <sub>1</sub> = $\chi_{152}, \varphi_{151}$
	104	0	42601474860639579669896397 <sub>1</sub> = $\chi_{153}, \varphi_{152}$
	105	0	43527130990147981755651072 <sub>1</sub> = $\chi_{154}, \varphi_{153}$
	106	0	50572542024949598403750000 <sub>1</sub> = $\chi_{155}, \varphi_{155}$
	107	0	51324350389558097414062500 <sub>1</sub> = $\chi_{156}, \varphi_{156}$
	108	0	56356433273146675005489152 <sub>1</sub> = $\chi_{157}, \varphi_{158}$
	109	0	62038057486792249132974080 <sub>1</sub> = $\chi_{159}, \varphi_{159}$
	110	0	63750812845035828079008441 <sub>1</sub> = $\chi_{160}, \varphi_{160}$
	111	0	6655033951435615200000000 <sub>1</sub> = $\chi_{162}, \varphi_{162}$
	112	0	69084859008005036431224066 <sub>1</sub> = $\chi_{163}, \varphi_{163}$
	113	0	77423398454853064646282250 <sub>1</sub> = $\chi_{165}, \varphi_{165}$
	114	0	83974774459050335630859375 <sub>1</sub> = $\chi_{166}, \varphi_{166}$
	115	0	86206621680977834911875000 <sub>1</sub> = $\chi_{167}, \varphi_{167}$
	116	0	88943820620288343261672393 <sub>1</sub> = $\chi_{168}, \varphi_{168}$
	117	0	115165062362004433625000000 <sub>1</sub> = $\chi_{170}, \varphi_{172}$
	118	0	121170799240938738783416925 <sub>1</sub> = $\chi_{171}, \varphi_{173}$
	119	0	124982156072747647257292800 <sub>1</sub> = $\chi_{173}, \varphi_{175}$
	120	0	125517264890136048242396811 <sub>1</sub> = $\chi_{174}, \varphi_{176}$

	blocks	defect	matrix
	121	0	135226984222789977095703125 <sub>1</sub> = $\chi_{177}, \varphi_{179}$
	122	0	136574874874360806036041889 <sub>1</sub> = $\chi_{179}, \varphi_{182}$
	123	0	136574874874360806036041889 <sub>2</sub> = $\chi_{180}, \varphi_{181}$
	124	0	161561864971171113287540625 <sub>1</sub> = $\chi_{182}, \varphi_{183}$
	125	0	163216709667196367710937500 <sub>1</sub> = $\chi_{183}, \varphi_{184}$
	126	0	173865305251972140447265625 <sub>1</sub> = $\chi_{185}, \varphi_{185}$
	127	0	175867626988794162227008203 <sub>1</sub> = $\chi_{186}, \varphi_{186}$
	128	0	198203900044423845494482560 <sub>1</sub> = $\chi_{188}, \varphi_{187}$
	129	0	207467089840006711558593750 <sub>1</sub> = $\chi_{191}, \varphi_{188}$
	130	0	212490247553365721772656250 <sub>1</sub> = $\chi_{192}, \varphi_{189}$

<b>Block 1:</b>	$\varphi_1$	$\varphi_{10}$	$\varphi_{15}$	$\varphi_{26}$
$1_1 = \chi_1$	1	.	.	.
125510727015275 <sub>1</sub> = $\chi_{10}$	.	1	.	.
2374124840062976 <sub>1</sub> = $\chi_{15}$	.	1	1	.
3503434660075044981 <sub>1</sub> = $\chi_{26}$	.	.	.	.
3503434660075044981 <sub>2</sub> = $\chi_{27}$	.	.	.	1
28585990950721640625 <sub>1</sub> = $\chi_{31}$	.	.	1	.
172399434201593354756 <sub>1</sub> = $\chi_{39}$	.	.	.	.
172399434201593354756 <sub>2</sub> = $\chi_{40}$	.	.	.	.
643356925889917747200 <sub>1</sub> = $\chi_{46}$	.	.	.	.
776097192277137500000 <sub>1</sub> = $\chi_{49}$	1	.	.	.
10145274012943412428800 <sub>1</sub> = $\chi_{64}$	.	.	.	.
114212876389603002704448 <sub>1</sub> = $\chi_{78}$	.	.	.	.
115192831837135016250000 <sub>1</sub> = $\chi_{79}$	.	.	.	.
4926670174323484069683200 <sub>1</sub> = $\chi_{121}$	.	.	.	.
9416031858681585751556096 <sub>1</sub> = $\chi_{133}$	.	.	.	.
14930164283563048960000000 <sub>1</sub> = $\chi_{140}$	.	.	.	.
58437394633227526183321600 <sub>1</sub> = $\chi_{158}$	.	.	.	1
64326163427522624205703125 <sub>1</sub> = $\chi_{161}$	.	.	.	.
103354104243912727763091456 <sub>1</sub> = $\chi_{169}$	.	.	.	.

(Block 1:)	$\varphi_{27}$	$\varphi_{31}$	$\varphi_{39}$	$\varphi_{40}$
$1_1 = \chi_1$	.	.	.	.
$125510727015275_1 = \chi_{10}$	.	.	.	.
$2374124840062976_1 = \chi_{15}$	.	.	.	.
$3503434660075044981_1 = \chi_{26}$	1	.	.	.
$3503434660075044981_2 = \chi_{27}$	.	.	.	.
$28585990950721640625_1 = \chi_{31}$	.	1	.	.
$172399434201593354756_1 = \chi_{39}$	.	.	.	1
$172399434201593354756_2 = \chi_{40}$	.	.	1	.
$643356925889917747200_1 = \chi_{46}$	.	1	.	.
$776097192277137500000_1 = \chi_{49}$	.	.	.	.
$10145274012943412428800_1 = \chi_{64}$	.	.	.	.
$114212876389603002704448_1 = \chi_{78}$	.	.	.	.
$115192831837135016250000_1 = \chi_{79}$	.	.	.	.
$4926670174323484069683200_1 = \chi_{121}$	.	.	.	.
$9416031858681585751556096_1 = \chi_{133}$	.	.	.	.
$14930164283563048960000000_1 = \chi_{140}$	.	.	1	1
$58437394633227526183321600_1 = \chi_{158}$	1	.	.	.
$64326163427522624205703125_1 = \chi_{161}$	.	.	.	.
$103354104243912727763091456_1 = \chi_{169}$	.	.	.	.

(Block 1:)	$\varphi_{44}$	$\varphi_{49}$	$\varphi_{64}$	$\varphi_{78}$
$1_1 = \chi_1$	.	.	.	.
$125510727015275_1 = \chi_{10}$	.	.	.	.
$2374124840062976_1 = \chi_{15}$	.	.	.	.
$3503434660075044981_1 = \chi_{26}$	.	.	.	.
$3503434660075044981_2 = \chi_{27}$	.	.	.	.
$28585990950721640625_1 = \chi_{31}$	.	.	.	.
$172399434201593354756_1 = \chi_{39}$	.	.	.	.
$172399434201593354756_2 = \chi_{40}$	.	.	.	.
$643356925889917747200_1 = \chi_{46}$	1	.	.	.
$776097192277137500000_1 = \chi_{49}$	.	1	.	.
$10145274012943412428800_1 = \chi_{64}$	.	1	1	.
$114212876389603002704448_1 = \chi_{78}$	.	.	1	1
$115192831837135016250000_1 = \chi_{79}$	1	.	.	.
$4926670174323484069683200_1 = \chi_{121}$	.	.	.	1
$9416031858681585751556096_1 = \chi_{133}$	.	.	.	.
$14930164283563048960000000_1 = \chi_{140}$	.	.	.	.
$58437394633227526183321600_1 = \chi_{158}$	.	.	.	.
$64326163427522624205703125_1 = \chi_{161}$	.	.	.	.
$103354104243912727763091456_1 = \chi_{169}$	.	.	.	.

<b>(Block 1:)</b>	$\varphi_{79}$	$\varphi_{120}$	$\varphi_{132}$
$1_1 = \chi_1$	.	.	.
$125510727015275_1 = \chi_{10}$	.	.	.
$2374124840062976_1 = \chi_{15}$	.	.	.
$3503434660075044981_1 = \chi_{26}$	.	.	.
$3503434660075044981_2 = \chi_{27}$	.	.	.
$28585990950721640625_1 = \chi_{31}$	.	.	.
$172399434201593354756_1 = \chi_{39}$	.	.	.
$172399434201593354756_2 = \chi_{40}$	.	.	.
$643356925889917747200_1 = \chi_{46}$	.	.	.
$776097192277137500000_1 = \chi_{49}$	.	.	.
$10145274012943412428800_1 = \chi_{64}$	.	.	.
$114212876389603002704448_1 = \chi_{78}$	.	.	.
$115192831837135016250000_1 = \chi_{79}$	1	.	.
$4926670174323484069683200_1 = \chi_{121}$	.	1	.
$9416031858681585751556096_1 = \chi_{133}$	1	.	1
$14930164283563048960000000_1 = \chi_{140}$	.	1	.
$58437394633227526183321600_1 = \chi_{158}$	.	.	1
$64326163427522624205703125_1 = \chi_{161}$	.	.	.
$103354104243912727763091456_1 = \chi_{169}$	.	.	.

<b>(Block 1:)</b>	$\varphi_{138}$	$\varphi_{154}$	$\varphi_{157}$
$1_1 = \chi_1$	.	.	.
$125510727015275_1 = \chi_{10}$	.	.	.
$2374124840062976_1 = \chi_{15}$	.	.	.
$3503434660075044981_1 = \chi_{26}$	.	.	.
$3503434660075044981_2 = \chi_{27}$	.	.	.
$28585990950721640625_1 = \chi_{31}$	.	.	.
$172399434201593354756_1 = \chi_{39}$	.	.	.
$172399434201593354756_2 = \chi_{40}$	.	.	.
$643356925889917747200_1 = \chi_{46}$	.	.	.
$776097192277137500000_1 = \chi_{49}$	.	.	.
$10145274012943412428800_1 = \chi_{64}$	.	.	.
$114212876389603002704448_1 = \chi_{78}$	.	.	.
$115192831837135016250000_1 = \chi_{79}$	.	.	.
$4926670174323484069683200_1 = \chi_{121}$	.	.	.
$9416031858681585751556096_1 = \chi_{133}$	.	.	.
$14930164283563048960000000_1 = \chi_{140}$	1	.	.
$58437394633227526183321600_1 = \chi_{158}$	.	1	.
$64326163427522624205703125_1 = \chi_{161}$	1	.	1
$103354104243912727763091456_1 = \chi_{169}$	.	1	1

$$\begin{array}{ll}
\varphi_1 = 1_1 & \varphi_{49} = 776097192277137499999_1 \\
\varphi_{10} = 125510727015275_1 & \varphi_{64} = 9369176820666274928801_1 \\
\varphi_{15} = 2248614113047701_1 & \varphi_{78} = 104843699568936727775647_1 \\
\varphi_{26} = 3503434660075044981_1 & \varphi_{79} = 114578058653581707095724_1 \\
\varphi_{27} = 3503434660075044981_2 & \varphi_{120} = 4821826474754547341907553_1 \\
\varphi_{31} = 28583742336608592924_1 & \varphi_{132} = 9301453800028004044460372_1 \\
\varphi_{39} = 172399434201593354756_1 & \varphi_{138} = 10107993009940098431382935_1 \\
\varphi_{40} = 172399434201593354756_2 & \varphi_{154} = 49135933826330201988771266_1 \\
\varphi_{44} = 614773183553309154276_1 & \varphi_{157} = 54218170417582525774320190_1
\end{array}$$

<b>Block 2:</b>	$\varphi_2$	$\varphi_4$	$\varphi_{11}$	$\varphi_{25}$
$196883_1 = \chi_2$	1	.	.	.
$842609326_1 = \chi_4$	.	1	.	.
$190292345709543_1 = \chi_{11}$	.	1	1	.
$2986480825407204125_1 = \chi_{25}$	1	.	.	1
$30815545786259524745_1 = \chi_{32}$	.	.	1	.
$130415350420342968750_1 = \chi_{37}$	.	.	.	1
$7226910362631220625000_1 = \chi_{63}$	.	.	.	.
$19795913912408993711352_1 = \chi_{66}$	.	.	.	.
$41209556844092914062500_1 = \chi_{70}$	.	.	.	.
$220326476909636307378168_1 = \chi_{88}$	.	.	.	.
$655159231073705404921875_1 = \chi_{104}$	.	.	.	.
$689766726179555080994223_1 = \chi_{107}$	.	.	.	.
$689766726179555080994223_2 = \chi_{108}$	.	.	.	.
$29734941419909382162874368_1 = \chi_{145}$	.	.	.	.
$124058385593021471188320256_1 = \chi_{172}$	.	.	.	.
$129572518017902934396764160_1 = \chi_{175}$	.	.	.	.
$177966317773633111417870812_1 = \chi_{187}$	.	.	.	.
$200390867219082687273984375_1 = \chi_{189}$	.	.	.	.
$203314261261157852274218750_1 = \chi_{190}$	.	.	.	.

(Block 2:)	$\varphi_{32}$	$\varphi_{37}$	$\varphi_{63}$	$\varphi_{65}$
196883 <sub>1</sub> = $\chi_2$	.	.	.	.
842609326 <sub>1</sub> = $\chi_4$	.	.	.	.
190292345709543 <sub>1</sub> = $\chi_{11}$	.	.	.	.
2986480825407204125 <sub>1</sub> = $\chi_{25}$	.	.	.	.
30815545786259524745 <sub>1</sub> = $\chi_{32}$	1	.	.	.
130415350420342968750 <sub>1</sub> = $\chi_{37}$	.	1	.	.
7226910362631220625000 <sub>1</sub> = $\chi_{63}$	.	1	1	.
19795913912408993711352 <sub>1</sub> = $\chi_{66}$	.	.	1	1
41209556844092914062500 <sub>1</sub> = $\chi_{70}$	.	.	.	1
220326476909636307378168 <sub>1</sub> = $\chi_{88}$	.	.	.	.
655159231073705404921875 <sub>1</sub> = $\chi_{104}$	1	.	.	.
689766726179555080994223 <sub>1</sub> = $\chi_{107}$	.	.	.	.
689766726179555080994223 <sub>2</sub> = $\chi_{108}$	.	.	.	.
29734941419909382162874368 <sub>1</sub> = $\chi_{145}$	.	.	.	.
124058385593021471188320256 <sub>1</sub> = $\chi_{172}$	.	.	.	.
129572518017902934396764160 <sub>1</sub> = $\chi_{175}$	.	.	.	.
177966317773633111417870812 <sub>1</sub> = $\chi_{187}$	.	.	.	.
200390867219082687273984375 <sub>1</sub> = $\chi_{189}$	.	.	.	.
203314261261157852274218750 <sub>1</sub> = $\chi_{190}$	.	.	.	.

(Block 2:)	$\varphi_{69}$	$\varphi_{87}$	$\varphi_{103}$
196883 <sub>1</sub> = $\chi_2$	.	.	.
842609326 <sub>1</sub> = $\chi_4$	.	.	.
190292345709543 <sub>1</sub> = $\chi_{11}$	.	.	.
2986480825407204125 <sub>1</sub> = $\chi_{25}$	.	.	.
30815545786259524745 <sub>1</sub> = $\chi_{32}$	.	.	.
130415350420342968750 <sub>1</sub> = $\chi_{37}$	.	.	.
7226910362631220625000 <sub>1</sub> = $\chi_{63}$	.	.	.
19795913912408993711352 <sub>1</sub> = $\chi_{66}$	.	.	.
41209556844092914062500 <sub>1</sub> = $\chi_{70}$	1	.	.
220326476909636307378168 <sub>1</sub> = $\chi_{88}$	1	1	.
655159231073705404921875 <sub>1</sub> = $\chi_{104}$	.	.	1
689766726179555080994223 <sub>1</sub> = $\chi_{107}$	.	.	.
689766726179555080994223 <sub>2</sub> = $\chi_{108}$	.	.	.
29734941419909382162874368 <sub>1</sub> = $\chi_{145}$	.	.	1
124058385593021471188320256 <sub>1</sub> = $\chi_{172}$	.	1	.
129572518017902934396764160 <sub>1</sub> = $\chi_{175}$	.	.	.
177966317773633111417870812 <sub>1</sub> = $\chi_{187}$	.	.	.
200390867219082687273984375 <sub>1</sub> = $\chi_{189}$	.	.	.
203314261261157852274218750 <sub>1</sub> = $\chi_{190}$	.	.	.



(Block 2:)	$\varphi_{106}$	$\varphi_{107}$	$\varphi_{144}$
$196883_1 = \chi_2$	.	.	.
$842609326_1 = \chi_4$	.	.	.
$190292345709543_1 = \chi_{11}$	.	.	.
$2986480825407204125_1 = \chi_{25}$	.	.	.
$30815545786259524745_1 = \chi_{32}$	.	.	.
$130415350420342968750_1 = \chi_{37}$	.	.	.
$7226910362631220625000_1 = \chi_{63}$	.	.	.
$19795913912408993711352_1 = \chi_{66}$	.	.	.
$41209556844092914062500_1 = \chi_{70}$	.	.	.
$220326476909636307378168_1 = \chi_{88}$	.	.	.
$655159231073705404921875_1 = \chi_{104}$	.	.	.
$689766726179555080994223_1 = \chi_{107}$	.	1	.
$689766726179555080994223_2 = \chi_{108}$	1	.	.
$29734941419909382162874368_1 = \chi_{145}$	.	.	1
$124058385593021471188320256_1 = \chi_{172}$	.	.	.
$129572518017902934396764160_1 = \chi_{175}$	.	.	1
$177966317773633111417870812_1 = \chi_{187}$	.	.	.
$200390867219082687273984375_1 = \chi_{189}$	.	.	.
$203314261261157852274218750_1 = \chi_{190}$	1	1	.

(Block 2:)	$\varphi_{164}$	$\varphi_{169}$	$\varphi_{170}$
$196883_1 = \chi_2$	.	.	.
$842609326_1 = \chi_4$	.	.	.
$190292345709543_1 = \chi_{11}$	.	.	.
$2986480825407204125_1 = \chi_{25}$	.	.	.
$30815545786259524745_1 = \chi_{32}$	.	.	.
$130415350420342968750_1 = \chi_{37}$	.	.	.
$7226910362631220625000_1 = \chi_{63}$	.	.	.
$19795913912408993711352_1 = \chi_{66}$	.	.	.
$41209556844092914062500_1 = \chi_{70}$	.	.	.
$220326476909636307378168_1 = \chi_{88}$	.	.	.
$655159231073705404921875_1 = \chi_{104}$	.	.	.
$689766726179555080994223_1 = \chi_{107}$	.	.	.
$689766726179555080994223_2 = \chi_{108}$	.	.	.
$29734941419909382162874368_1 = \chi_{145}$	.	.	.
$124058385593021471188320256_1 = \chi_{172}$	.	.	.
$129572518017902934396764160_1 = \chi_{175}$	.	1	.
$177966317773633111417870812_1 = \chi_{187}$	1	.	1
$200390867219082687273984375_1 = \chi_{189}$	1	.	.
$203314261261157852274218750_1 = \chi_{190}$	.	1	1

(Block 2:)	$\varphi_{174}$
196883 <sub>1</sub> = $\chi_2$	.
842609326 <sub>1</sub> = $\chi_4$	.
190292345709543 <sub>1</sub> = $\chi_{11}$	.
2986480825407204125 <sub>1</sub> = $\chi_{25}$	.
30815545786259524745 <sub>1</sub> = $\chi_{32}$	.
130415350420342968750 <sub>1</sub> = $\chi_{37}$	.
7226910362631220625000 <sub>1</sub> = $\chi_{63}$	.
19795913912408993711352 <sub>1</sub> = $\chi_{66}$	.
41209556844092914062500 <sub>1</sub> = $\chi_{70}$	.
220326476909636307378168 <sub>1</sub> = $\chi_{88}$	.
655159231073705404921875 <sub>1</sub> = $\chi_{104}$	.
689766726179555080994223 <sub>1</sub> = $\chi_{107}$	.
689766726179555080994223 <sub>2</sub> = $\chi_{108}$	.
29734941419909382162874368 <sub>1</sub> = $\chi_{145}$	.
124058385593021471188320256 <sub>1</sub> = $\chi_{172}$	1
129572518017902934396764160 <sub>1</sub> = $\chi_{175}$	.
177966317773633111417870812 <sub>1</sub> = $\chi_{187}$	.
200390867219082687273984375 <sub>1</sub> = $\chi_{189}$	1
203314261261157852274218750 <sub>1</sub> = $\chi_{190}$	.

$\varphi_2 = 196883_1$	$\varphi_{87} = 191813352484916102363528_1$
$\varphi_4 = 842609326_1$	$\varphi_{103} = 655128415718210648497347_1$
$\varphi_{11} = 190291503100217_1$	$\varphi_{106} = 689766726179555080994223_1$
$\varphi_{25} = 2986480825407007242_1$	$\varphi_{107} = 689766726179555080994223_2$
$\varphi_{32} = 30815355494756424528_1$	$\varphi_{144} = 29079813004191171514377021_1$
$\varphi_{37} = 127428869594935961508_1$	$\varphi_{164} = 76524294978546132188027647_1$
$\varphi_{63} = 7099481493036284663492_1$	$\varphi_{169} = 100492705013711762882387139_1$
$\varphi_{65} = 12696432419372709047860_1$	$\varphi_{170} = 101442022795086979229843165_1$
$\varphi_{69} = 28513124424720205014640_1$	$\varphi_{174} = 123866572240536555085956728_1$

<b>Block 3:</b>	$\varphi_3$	$\varphi_5$	$\varphi_{12}$	$\varphi_{13}$
$21296876_1 = \chi_3$	1	.	.	.
$18538750076_1 = \chi_5$	.	1	.	.
$222879856734249_1 = \chi_{12}$	1	.	1	.
$1044868466775133_1 = \chi_{13}$	.	.	1	1
$39660520552077425_1 = \chi_{19}$	.	1	.	.
$8754193822112578125_1 = \chi_{30}$	.	.	.	.
$21803647757861753437500_1 = \chi_{67}$	.	.	.	.
$91068387388302451493925_1 = \chi_{77}$	.	.	.	.
$261575621299360905468750_1 = \chi_{91}$	.	.	.	1
$433528694560598978525184_1 = \chi_{98}$	.	.	.	.
$626877403613887304040448_1 = \chi_{102}$	.	.	.	.
$626877403613887304040448_2 = \chi_{103}$	.	.	.	.
$689763222744895005949242_1 = \chi_{105}$	.	.	.	.
$689763222744895005949242_2 = \chi_{106}$	.	.	.	.
$8874260875527017936065100_1 = \chi_{132}$	.	.	.	.
$74612213529720383654779356_1 = \chi_{164}$	.	.	.	.
$136107644194473772613203125_1 = \chi_{178}$	.	.	.	.
$172248852397651745653437500_1 = \chi_{184}$	.	.	.	.
$241866941438795926688759808_1 = \chi_{193}$	.	.	.	.

<b>(Block 3):</b>	$\varphi_{19}$	$\varphi_{30}$	$\varphi_{67}$	$\varphi_{74}$
$21296876_1 = \chi_3$	.	.	.	.
$18538750076_1 = \chi_5$	.	.	.	.
$222879856734249_1 = \chi_{12}$	.	.	.	.
$1044868466775133_1 = \chi_{13}$	.	.	.	.
$39660520552077425_1 = \chi_{19}$	1	.	.	.
$8754193822112578125_1 = \chi_{30}$	1	1	.	.
$21803647757861753437500_1 = \chi_{67}$	.	1	1	.
$91068387388302451493925_1 = \chi_{77}$	.	.	1	1
$261575621299360905468750_1 = \chi_{91}$	.	.	.	.
$433528694560598978525184_1 = \chi_{98}$	.	.	.	1
$626877403613887304040448_1 = \chi_{102}$	.	.	.	.
$626877403613887304040448_2 = \chi_{103}$	.	.	.	.
$689763222744895005949242_1 = \chi_{105}$	.	.	.	.
$689763222744895005949242_2 = \chi_{106}$	.	.	.	.
$8874260875527017936065100_1 = \chi_{132}$	.	.	.	.
$74612213529720383654779356_1 = \chi_{164}$	.	.	.	.
$136107644194473772613203125_1 = \chi_{178}$	.	.	.	.
$172248852397651745653437500_1 = \chi_{184}$	.	.	.	.
$241866941438795926688759808_1 = \chi_{193}$	.	.	.	.

(Block 3:)	$\varphi_{90}$	$\varphi_{95}$	$\varphi_{101}$
21296876 <sub>1</sub> = $\chi_3$	.	.	.
18538750076 <sub>1</sub> = $\chi_5$	.	.	.
222879856734249 <sub>1</sub> = $\chi_{12}$	.	.	.
1044868466775133 <sub>1</sub> = $\chi_{13}$	.	.	.
39660520552077425 <sub>1</sub> = $\chi_{19}$	.	.	.
8754193822112578125 <sub>1</sub> = $\chi_{30}$	.	.	.
21803647757861753437500 <sub>1</sub> = $\chi_{67}$	.	.	.
91068387388302451493925 <sub>1</sub> = $\chi_{77}$	.	.	.
261575621299360905468750 <sub>1</sub> = $\chi_{91}$	1	.	.
433528694560598978525184 <sub>1</sub> = $\chi_{98}$	.	1	.
626877403613887304040448 <sub>1</sub> = $\chi_{102}$	.	.	.
626877403613887304040448 <sub>2</sub> = $\chi_{103}$	.	.	1
689763222744895005949242 <sub>1</sub> = $\chi_{105}$	.	.	.
689763222744895005949242 <sub>2</sub> = $\chi_{106}$	.	.	.
8874260875527017936065100 <sub>1</sub> = $\chi_{132}$	.	1	.
74612213529720383654779356 <sub>1</sub> = $\chi_{164}$	.	.	1
136107644194473772613203125 <sub>1</sub> = $\chi_{178}$	1	.	.
172248852397651745653437500 <sub>1</sub> = $\chi_{184}$	.	.	.
241866941438795926688759808 <sub>1</sub> = $\chi_{193}$	.	.	.

(Block 3:)	$\varphi_{102}$	$\varphi_{104}$	$\varphi_{105}$
21296876 <sub>1</sub> = $\chi_3$	.	.	.
18538750076 <sub>1</sub> = $\chi_5$	.	.	.
222879856734249 <sub>1</sub> = $\chi_{12}$	.	.	.
1044868466775133 <sub>1</sub> = $\chi_{13}$	.	.	.
39660520552077425 <sub>1</sub> = $\chi_{19}$	.	.	.
8754193822112578125 <sub>1</sub> = $\chi_{30}$	.	.	.
21803647757861753437500 <sub>1</sub> = $\chi_{67}$	.	.	.
91068387388302451493925 <sub>1</sub> = $\chi_{77}$	.	.	.
261575621299360905468750 <sub>1</sub> = $\chi_{91}$	.	.	.
433528694560598978525184 <sub>1</sub> = $\chi_{98}$	.	.	.
626877403613887304040448 <sub>1</sub> = $\chi_{102}$	1	.	.
626877403613887304040448 <sub>2</sub> = $\chi_{103}$	.	.	.
689763222744895005949242 <sub>1</sub> = $\chi_{105}$	.	.	1
689763222744895005949242 <sub>2</sub> = $\chi_{106}$	.	1	.
8874260875527017936065100 <sub>1</sub> = $\chi_{132}$	.	.	.
74612213529720383654779356 <sub>1</sub> = $\chi_{164}$	1	.	.
136107644194473772613203125 <sub>1</sub> = $\chi_{178}$	.	.	.
172248852397651745653437500 <sub>1</sub> = $\chi_{184}$	.	1	1
241866941438795926688759808 <sub>1</sub> = $\chi_{193}$	.	.	.

(Block 3:)	$\varphi_{131}$	$\varphi_{161}$	$\varphi_{171}$
$21296876_1 = \chi_3$	.	.	.
$18538750076_1 = \chi_5$	.	.	.
$222879856734249_1 = \chi_{12}$	.	.	.
$1044868466775133_1 = \chi_{13}$	.	.	.
$39660520552077425_1 = \chi_{19}$	.	.	.
$8754193822112578125_1 = \chi_{30}$	.	.	.
$21803647757861753437500_1 = \chi_{67}$	.	.	.
$91068387388302451493925_1 = \chi_{77}$	.	.	.
$261575621299360905468750_1 = \chi_{91}$	.	.	.
$433528694560598978525184_1 = \chi_{98}$	.	.	.
$626877403613887304040448_1 = \chi_{102}$	.	.	.
$626877403613887304040448_2 = \chi_{103}$	.	.	.
$689763222744895005949242_1 = \chi_{105}$	.	.	.
$689763222744895005949242_2 = \chi_{106}$	.	.	.
$8874260875527017936065100_1 = \chi_{132}$	1	.	.
$74612213529720383654779356_1 = \chi_{164}$	1	1	.
$136107644194473772613203125_1 = \chi_{178}$	.	.	.
$172248852397651745653437500_1 = \chi_{184}$	.	1	1
$241866941438795926688759808_1 = \chi_{193}$	.	.	1

(Block 3:)	$\varphi_{180}$
$21296876_1 = \chi_3$	.
$18538750076_1 = \chi_5$	.
$222879856734249_1 = \chi_{12}$	.
$1044868466775133_1 = \chi_{13}$	.
$39660520552077425_1 = \chi_{19}$	.
$8754193822112578125_1 = \chi_{30}$	.
$21803647757861753437500_1 = \chi_{67}$	.
$91068387388302451493925_1 = \chi_{77}$	.
$261575621299360905468750_1 = \chi_{91}$	.
$433528694560598978525184_1 = \chi_{98}$	.
$626877403613887304040448_1 = \chi_{102}$	.
$626877403613887304040448_2 = \chi_{103}$	.
$689763222744895005949242_1 = \chi_{105}$	.
$689763222744895005949242_2 = \chi_{106}$	.
$8874260875527017936065100_1 = \chi_{132}$	.
$74612213529720383654779356_1 = \chi_{164}$	.
$136107644194473772613203125_1 = \chi_{178}$	1
$172248852397651745653437500_1 = \chi_{184}$	.
$241866941438795926688759808_1 = \chi_{193}$	1

$$\begin{array}{ll}
\varphi_3 = 21296876_1 & \varphi_{95} = 364255240396838181217983_1 \\
\varphi_5 = 18538750076_1 & \varphi_{101} = 626877403613887304040448_1 \\
\varphi_{12} = 222879835437373_1 & \varphi_{102} = 626877403613887304040448_2 \\
\varphi_{13} = 821988631337760_1 & \varphi_{104} = 689763222744895005949242_1 \\
\varphi_{19} = 39660502013327349_1 & \varphi_{105} = 689763222744895005949242_2 \\
\varphi_{30} = 8714533320099250776_1 & \varphi_{131} = 8510005635130179754847117_1 \\
\varphi_{67} = 21794933224541654186724_1 & \varphi_{161} = 64848453087362429291851343_1 \\
\varphi_{74} = 69273454163760797307201_1 & \varphi_{171} = 106020872864799526349687673_1 \\
\varphi_{90} = 261575620477372274130990_1 & \varphi_{180} = 135846068573996400339072135_1
\end{array}$$

<b>Block 4:</b>	$\varphi_6$	$\varphi_{18}$	$\varphi_{28}$	$\varphi_{68}$
19360062527 <sub>1</sub> = $\chi_6$	1	.	.	.
15178147608537368 <sub>1</sub> = $\chi_{18}$	1	1	.	.
3605718753596953125 <sub>1</sub> = $\chi_{28}$	.	1	1	.
24670833602960142274950 <sub>1</sub> = $\chi_{68}$	.	.	1	1
260799524107083767968750 <sub>1</sub> = $\chi_{89}$	.	.	.	.
260799524107083767968750 <sub>2</sub> = $\chi_{90}$	.	.	.	.
3619209050774375426792424 <sub>1</sub> = $\chi_{118}$	.	.	.	1
7118465328761788475375616 <sub>1</sub> = $\chi_{126}$	.	.	.	.
130287135266837289237316743 <sub>1</sub> = $\chi_{176}$	.	.	.	.
138988549876584520148320256 <sub>1</sub> = $\chi_{181}$	.	.	.	.
258823477531055064045234375 <sub>1</sub> = $\chi_{194}$	.	.	.	.

<b>(Block 4):</b>	$\varphi_{89}$	$\varphi_{117}$	$\varphi_{125}$
19360062527 <sub>1</sub> = $\chi_6$	.	.	.
15178147608537368 <sub>1</sub> = $\chi_{18}$	.	.	.
3605718753596953125 <sub>1</sub> = $\chi_{28}$	.	.	.
24670833602960142274950 <sub>1</sub> = $\chi_{68}$	.	.	.
260799524107083767968750 <sub>1</sub> = $\chi_{89}$	1	.	.
260799524107083767968750 <sub>2</sub> = $\chi_{90}$	1	.	.
3619209050774375426792424 <sub>1</sub> = $\chi_{118}$	.	1	.
7118465328761788475375616 <sub>1</sub> = $\chi_{126}$	1	.	1
130287135266837289237316743 <sub>1</sub> = $\chi_{176}$	.	1	.
138988549876584520148320256 <sub>1</sub> = $\chi_{181}$	.	.	1
258823477531055064045234375 <sub>1</sub> = $\chi_{194}$	.	.	.

<b>(Block 4:)</b>	$\varphi_{177}$	$\varphi_{178}$
$19360062527_1 = \chi_6$	.	.
$15178147608537368_1 = \chi_{18}$	.	.
$3605718753596953125_1 = \chi_{28}$	.	.
$24670833602960142274950_1 = \chi_{68}$	.	.
$260799524107083767968750_1 = \chi_{89}$	.	.
$260799524107083767968750_2 = \chi_{90}$	.	.
$3619209050774375426792424_1 = \chi_{118}$	.	.
$7118465328761788475375616_1 = \chi_{126}$	.	.
$130287135266837289237316743_1 = \chi_{176}$	1	.
$138988549876584520148320256_1 = \chi_{181}$	.	1
$258823477531055064045234375_1 = \chi_{194}$	1	1

$$\begin{aligned} \varphi_6 &= 19360062527_1 \\ \varphi_{18} &= 15178128248474841_1 \\ \varphi_{28} &= 3590540625348478284_1 \\ \varphi_{68} &= 24667243062334793796666_1 \\ \varphi_{89} &= 260799524107083767968750_1 \end{aligned}$$

$$\begin{aligned} \varphi_{117} &= 3594541807712040632995758_1 \\ \varphi_{125} &= 6857665804654704707406866_1 \\ \varphi_{177} &= 126692593459125248604320985_1 \\ \varphi_{178} &= 132130884071929815440913390_1 \end{aligned}$$