

$A_{17} \pmod{13}$

	blocks	defect	matrix
$G :$	1	1	13×12
	2	1	13×12
	3	1	8×6
	4	0	$1105_1 = \chi_7, \varphi_7$
	5	0	$1820_1 = \chi_9, \varphi_9$
	6	0	$3536_1 = \chi_{10}, \varphi_{10}$
	7	0	$4368_1 = \chi_{12}, \varphi_{12}$
	8	0	$4862_1 = \chi_{13}, \varphi_{14}$
	9	0	$6188_1 = \chi_{16}, \varphi_{16}$
	10	0	$6435_1 = \chi_{17}, \varphi_{17}$
	11	0	$6435_2 = \chi_{18}, \varphi_{18}$
	12	0	$7072_1 = \chi_{19}, \varphi_{19}$
	13	0	$8008_1 = \chi_{20}, \varphi_{20}$
	14	0	$11440_1 = \chi_{21}, \varphi_{21}$
	15	0	$15912_1 = \chi_{22}, \varphi_{23}$
	16	0	$17017_1 = \chi_{23}, \varphi_{25}$
	17	0	$19448_1 = \chi_{24}, \varphi_{26}$
	18	0	$24752_1 = \chi_{27}, \varphi_{28}$
	19	0	$38675_1 = \chi_{31}, \varphi_{31}$
	20	0	$46410_1 = \chi_{32}, \varphi_{32}$
	21	0	$48620_1 = \chi_{33}, \varphi_{33}$
	22	0	$65637_1 = \chi_{35}, \varphi_{35}$
	23	0	$68068_1 = \chi_{36}, \varphi_{36}$
	24	0	$70720_1 = \chi_{37}, \varphi_{37}$
	25	0	$74256_1 = \chi_{38}, \varphi_{38}$
	26	0	$85085_1 = \chi_{39}, \varphi_{39}$
	27	0	$87516_1 = \chi_{40}, \varphi_{40}$
	28	0	$116688_1 = \chi_{41}, \varphi_{42}$
	29	0	$116688_2 = \chi_{42}, \varphi_{43}$
	30	0	$121550_1 = \chi_{43}, \varphi_{44}$
	31	0	$123760_1 = \chi_{44}, \varphi_{45}$
	32	0	$123760_2 = \chi_{45}, \varphi_{46}$
	33	0	$129948_1 = \chi_{46}, \varphi_{47}$
	34	0	$129948_2 = \chi_{47}, \varphi_{48}$
	35	0	$136136_1 = \chi_{49}, \varphi_{50}$
	36	0	$145860_1 = \chi_{50}, \varphi_{51}$
	37	0	$148512_1 = \chi_{51}, \varphi_{52}$
	38	0	$148512_2 = \chi_{52}, \varphi_{53}$
	39	0	$155584_1 = \chi_{53}, \varphi_{54}$
	40	0	$159120_1 = \chi_{55}, \varphi_{55}$

	blocks	defect	matrix
	41	0	$170170_1 = \chi_{56}, \varphi_{56}$
	42	0	$194480_1 = \chi_{57}, \varphi_{59}$
	43	0	$204204_1 = \chi_{58}, \varphi_{60}$
	44	0	$233376_1 = \chi_{61}, \varphi_{62}$
	45	0	$238238_1 = \chi_{62}, \varphi_{63}$
	46	0	$243100_1 = \chi_{63}, \varphi_{64}$
	47	0	$247520_1 = \chi_{64}, \varphi_{65}$
	48	0	$259896_1 = \chi_{65}, \varphi_{66}$
	49	0	$272272_1 = \chi_{66}, \varphi_{69}$
	50	0	$272272_2 = \chi_{67}, \varphi_{70}$
	51	0	$272272_3 = \chi_{68}, \varphi_{71}$
	52	0	$272272_4 = \chi_{69}, \varphi_{72}$
	53	0	$291720_1 = \chi_{70}, \varphi_{73}$
	54	0	$318240_1 = \chi_{71}, \varphi_{75}$
	55	0	$340340_1 = \chi_{74}, \varphi_{76}$
	56	0	$340340_2 = \chi_{75}, \varphi_{77}$
	57	0	$346528_1 = \chi_{76}, \varphi_{78}$
	58	0	$353600_1 = \chi_{77}, \varphi_{79}$
	59	0	$364650_1 = \chi_{78}, \varphi_{80}$
	60	0	$388960_1 = \chi_{79}, \varphi_{81}$
	61	0	$408408_1 = \chi_{81}, \varphi_{82}$
	62	0	$433160_1 = \chi_{82}, \varphi_{84}$
	63	0	$466752_1 = \chi_{83}, \varphi_{85}$
	64	0	$486200_1 = \chi_{84}, \varphi_{86}$
	65	0	$544544_1 = \chi_{86}, \varphi_{87}$
	66	0	$556920_1 = \chi_{87}, \varphi_{89}$
	67	0	$583440_1 = \chi_{89}, \varphi_{90}$
	68	0	$583440_2 = \chi_{90}, \varphi_{91}$
	69	0	$618800_1 = \chi_{92}, \varphi_{92}$
	70	0	$618800_2 = \chi_{93}, \varphi_{93}$
	71	0	$680680_1 = \chi_{96}, \varphi_{96}$
	72	0	$680680_2 = \chi_{97}, \varphi_{97}$
	73	0	$700128_1 = \chi_{98}, \varphi_{98}$
	74	0	$729300_1 = \chi_{99}, \varphi_{99}$
	$75 = \overline{74}$	0	$729300_2 = \chi_{100}, \varphi_{100}$
	76	0	$742560_1 = \chi_{101}, \varphi_{101}$
	77	0	$765765_1 = \chi_{103}, \varphi_{102}$
	$78 = \overline{77}$	0	$765765_2 = \chi_{104}, \varphi_{103}$
	79	0	$816816_1 = \chi_{105}, \varphi_{104}$
	80	0	$848640_1 = \chi_{106}, \varphi_{105}$

	blocks	defect	matrix
	81	0	$850850_1 = \chi_{107}, \varphi_{106}$
	82	0	$891072_1 = \chi_{108}, \varphi_{107}$
	83	0	$918918_1 = \chi_{110}, \varphi_{109}$
	84	0	$952952_1 = \chi_{111}, \varphi_{111}$
	85	0	$972400_1 = \chi_{112}, \varphi_{112}$
	86	0	$972400_2 = \chi_{113}, \varphi_{113}$
	87	0	$1021020_1 = \chi_{114}, \varphi_{114}$
	88	0	$1050192_1 = \chi_{116}, \varphi_{115}$
	89	0	$1082900_1 = \chi_{117}, \varphi_{116}$
	90	0	$1082900_2 = \chi_{118}, \varphi_{117}$
	91	0	$1089088_1 = \chi_{119}, \varphi_{118}$
	92	0	$1089088_2 = \chi_{120}, \varphi_{119}$
	93	0	$1089088_3 = \chi_{121}, \varphi_{120}$
	94	0	$1113840_1 = \chi_{122}, \varphi_{121}$
	95	0	$1299480_1 = \chi_{123}, \varphi_{122}$
	96	0	$1326000_1 = \chi_{124}, \varphi_{123}$
	97	0	$1336608_1 = \chi_{125}, \varphi_{124}$
	98	0	$1361360_1 = \chi_{126}, \varphi_{125}$
	99	0	$1361360_2 = \chi_{127}, \varphi_{126}$
	100	0	$1361360_3 = \chi_{128}, \varphi_{127}$
	101	0	$1361360_4 = \chi_{129}, \varphi_{128}$
	102	0	$1429428_1 = \chi_{130}, \varphi_{129}$
	103	0	$1485120_1 = \chi_{132}, \varphi_{130}$
	104	0	$1591200_1 = \chi_{134}, \varphi_{131}$
	105	0	$1633632_1 = \chi_{135}, \varphi_{132}$
	106	0	$1633632_2 = \chi_{136}, \varphi_{133}$
	107	0	$1701700_1 = \chi_{137}, \varphi_{134}$
	108	0	$1701700_2 = \chi_{138}, \varphi_{135}$
	109	0	$1750320_1 = \chi_{139}, \varphi_{136}$
	110	0	$1750320_2 = \chi_{140}, \varphi_{137}$
	111	0	$1905904_1 = \chi_{142}, \varphi_{138}$
	112	0	$2165800_1 = \chi_{143}, \varphi_{139}$
	113	0	$2255526_1 = \chi_{144}, \varphi_{140}$
	114	0	$2362932_1 = \chi_{145}, \varphi_{141}$
	115	0	$2431000_1 = \chi_{146}, \varphi_{142}$
	116	0	$2436525_1 = \chi_{147}, \varphi_{143}$
	$117 = \overline{116}$	0	$2436525_2 = \chi_{148}, \varphi_{144}$
	118	0	$2450448_1 = \chi_{149}, \varphi_{145}$
	119	0	$2475200_1 = \chi_{150}, \varphi_{146}$
	120	0	$2552550_1 = \chi_{151}, \varphi_{147}$

	blocks	defect	matrix
	121	0	$2598960_1 = \chi_{152}, \varphi_{148}$
	122	0	$2722720_1 = \chi_{153}, \varphi_{149}$
	123	0	$2858856_1 = \chi_{154}, \varphi_{150}$
	124	0	$3573570_1 = \chi_{155}, \varphi_{151}$
	125	0	$3620864_1 = \chi_{156}, \varphi_{152}$

Block 1:	φ_1	φ_6	φ_{11}	φ_{13}	φ_{24}	φ_{27}	φ_{29}	φ_{41}	φ_{49}	φ_{61}	φ_{67}	φ_{74}
$1_1 = \chi_1$	1	.	.	.	.	.	.	.	.	.	.	.
$560_1 = \chi_6$.	1	.	.	.	.	.	.	.	.	.	.
$3808_1 = \chi_{11}$	1	.	1	.	.	.	.	.	.	.	.	.
$5355_1 = \chi_{15}$.	1	.	1	.	.	.	.	.	.	.	.
$20944_1 = \chi_{26}$.	.	.	1	1	.	.	.	.	.	.	.
$33320_1 = \chi_{28}$.	.	1	.	.	.	1	.	.	.	.	.
$37400_1 = \chi_{30}$	1	1	.	.	.	.	.	.
$134640_1 = \chi_{48}$	1	1	.	.	.	.
$157080_1 = \chi_{54}$	1	.	.	1	.	.	.
$327250_1 = \chi_{72}$	1	.	1	.	.
$399840_1 = \chi_{80}$	1	.	1	.
$523600_1 = \chi_{85}$	1	.	1
$565488_1 = \chi_{88}$	1	1

$$\begin{array}{ll}
\varphi_1 = 1_1 & \varphi_{29} = 29513_1 \\
\varphi_6 = 560_1 & \varphi_{41} = 105127_1 \\
\varphi_{11} = 3807_1 & \varphi_{49} = 135829_1 \\
\varphi_{13} = 4795_1 & \varphi_{61} = 222123_1 \\
\varphi_{24} = 16149_1 & \varphi_{67} = 264011_1 \\
\varphi_{27} = 21251_1 & \varphi_{74} = 301477_1
\end{array}$$

Block 2:	φ_2	φ_4	φ_8	φ_{15}	φ_{22}	φ_{34}	φ_{58}	φ_{68}	φ_{88}	φ_{95}	φ_{108}	φ_{110}
$16_1 = \chi_2$	1	.	.	.	.	.	.	.	.	.	.	.
$120_1 = \chi_4$.	1	.	.	.	.	.	.	.	.	.	.
$1700_1 = \chi_8$	1	.	1	.	.	.	.	.	.	.	.	.
$5236_1 = \chi_{14}$.	1	.	1	.	.	.	.	.	.	.	.
$20400_1 = \chi_{25}$.	.	.	1	1	.	.	.	.	.	.	.
$62832_1 = \chi_{34}$.	.	1	.	.	1	.	.	.	.	.	.
$209440_1 = \chi_{60}$	1	.	1	.	.	.	.	.
$333200_1 = \chi_{73}$	1	.	1	.	.	.	.
$749700_1 = \chi_{102}$	1	.	1	.	.	.
$908820_1 = \chi_{109}$	1	.	1	.	.
$1454112_1 = \chi_{131}$	1	.	1	.
$1570800_1 = \chi_{133}$	1	.	1
$1832600_1 = \chi_{141}$	1	1

$$\begin{aligned}
\varphi_2 &= 16_1 & \varphi_{58} &= 194156_1 \\
\varphi_4 &= 120_1 & \varphi_{68} &= 272052_1 \\
\varphi_8 &= 1684_1 & \varphi_{88} &= 555544_1 \\
\varphi_{15} &= 5116_1 & \varphi_{95} &= 636768_1 \\
\varphi_{22} &= 15284_1 & \varphi_{108} &= 898568_1 \\
\varphi_{34} &= 61148_1 & \varphi_{110} &= 934032_1
\end{aligned}$$

Block 3:	φ_3	φ_5	φ_{30}	φ_{57}	φ_{83}	φ_{94}
$119_1 = \chi_3$	1	.	.	.	.	.
$544_1 = \chi_5$	1	1	.	.	.	.
$35700_1 = \chi_{29}$	.	1	1	.	.	.
$205632_1 = \chi_{59}$	.	.	1	1	.	.
$586432_1 = \chi_{91}$	.	.	.	1	1	.
$631125_1 = \chi_{94}$	.	.	.	.	.	1
$631125_2 = \chi_{95}$	.	.	.	.	.	1
$1047200_1 = \chi_{115}$	.	.	.	.	1	1

$$\begin{aligned}
\varphi_3 &= 119_1 \\
\varphi_5 &= 425_1 \\
\varphi_{30} &= 35275_1 \\
\varphi_{57} &= 170357_1 \\
\varphi_{83} &= 416075_1 \\
\varphi_{94} &= 631125_1
\end{aligned}$$