COMPLETELY DECOMPOSABLE JACOBIAN VARIETY DATA

JENNIFER PAULHUS AND ANITA M. ROJAS

This file contains data to supplement [2]. In that paper, we find numerous examples of curves from many different genera whose Jacobian varieties are completely decomposable, meaning they are isogenous to a product of elliptic curves. In the paper, we describe two techniques to find completely decomposable Jacobians. One uses the action of the automorphism group of the curve, and the other uses intermediate covers determined by subgroups of the automorphism group. See [2] for details.

Table 1 gives all examples we found using the group algebra method (including previously known genera). The decomposition is given as a list of numbers representing how many of each particular elliptic curve appear in the decomposition. In the table we also include the automorphism group as well as the signature for the action. When possible, we denote the group as an ordered pair where the first term is the order of the group, and the second term is the group identity number from Magma's database. If the order of the group exceeds the allowable sizes for these databases, we have labeled the group as a number (sometimes with a subscript). The number represents the order of the group. If the subscript itself is a number, then the group presentation may be found in data of Conder [1] where the subscript denotes which group of that order (and with the corresponding signature) in his data it is. If the subscript is a letter (or if there is no subscript at all), the presentation of the group may be found in Table 3.

In Table 2, we give all examples we found using the intermediate covers technique, and we use the same convention for labeling groups as in Table 1. In this table we also include the genus of the intermediate cover, the genus and automorphism group and signature for the larger curve, the subgroup size and number for the corresponding subgroup H (labeled as Magma does, with the convention of converting all groups to permutation groups), and the decomposition of the quotient curve. For ease of notation, we grouped all factors of the same dimension together, although they may not be in that order, nor correspond to the order of the decomposition of the high genus curve. For instance, if the decomposition were given as $E^2 \times E^4 \times E^2$, we would denote this as 2, 2, 4.

Examples in genus > 101 which have automorphism groups that are too large to be listed in the GAP or Magma databases are presented in Table 3. We give the generators and relations to define the group. For genus ≤ 101 , the groups may be found at [1].

References

- [1] M. Conder, 'Group actions on surfaces', https://www.math.auckland.ac.nz/~conder/
- [2] J. Paulhus and A. M. Rojas, 'Completely decomposable Jacobian varieties in new genera', to appear.

Table 1: Completely decomposable Jacobian varieties using the group algebra technique.

utomorphism Group	Signature	Jacobian Decomposition
		1, 1, 1, 2, 2, 2, 2
		2, 3, 3, 3
		1, 2, 2, 2, 4
		2, 2, 3, 4
		1, 2, 2, 2, 4
		5, 6
		5, 6
		1, 2, 8
		1, 2, 8
		5,6
		1, 2, 2, 2, 2, 2
	[0; 2, 2, 2, 2, 4]	1, 1, 1, 2, 2, 2, 2, 2
		same as above
	[0 0 0 0]	1, 1, 1, 1, 1, 2, 2, 2, 2
		1, 2, 2, 2, 2, 2
		same as above
		1, 1, 1, 1, 3, 3, 3
		1, 3, 3, 3, 3
		same as above
		2, 2, 3, 3, 3
	[0; 2, 2, 2, 2, 2]	1, 1, 1, 2, 2, 2, 4
		1, 1, 1, 1, 1, 2, 2, 2, 2
(64, 32)	[0; 4, 4, 8]	1, 4, 4, 4
(64, 134)	[0; 2, 2, 2, 8]	1, 2, 2, 4, 4
(64, 150)		same as above
(72, 45)	[0; 4, 4, 6]	1, 4, 4, 4
(72, 44)	[0; 3, 6, 6]	1, 1, 2, 3, 6
(72, 21)	[0; 2, 12, 12]	1, 2, 2, 4, 4
(72, 43)	[0; 2, 2, 3, 3]	2, 2, 3, 6
(72, 23)	[0; 2, 2, 2, 6]	1, 2, 2, 4, 4
(72, 46)		1, 2, 2, 2, 2, 4
(72, 46)		1, 2, 2, 4, 4
(96, 70)	[0; 3, 4, 6]	1, 6, 6
(96, 197)	[0; 2, 6, 12]	1, 1, 2, 3, 6
(96, 89)	[0; 2, 2, 2, 4]	1, 2, 2, 4, 4
(96, 187)		1, 3, 3, 6
(96, 226)		1, 3, 3, 3, 3
(120, 35)	[0; 2, 5, 10]	4, 4, 5
(128, 71)	[0; 2, 4, 16]	1, 2, 2, 8
(144, 184)	[0; 3, 3, 6]	1, 3, 9
(144, 190)	[0; 2, 6, 6]	1, 1, 2, 3, 6
(144, 115)		1, 4, 4, 4
(144, 183)		2, 2, 3, 6
		1, 3, 9
(200, 1024)		
(360, 121)	[0; 2, 3, 10]	5, 8
		14
(360, 121)	$ \begin{bmatrix} 0; 2, 3, 10 \\ 0; 2, 3, 7 \\ \hline [0; 2, 2, 4, 6] \end{bmatrix} $	
(360, 121) (1092,25)	0; 2, 3, 7] [0; 2, 2, 4, 6]	14
(360, 121) (1092,25) (48, 48) (144, 109)	0; 2, 3, 7] $[0; 2, 2, 4, 6]$ $[0; 2, 4, 18]$	14 1, 2, 3, 3, 3, 3 3, 6, 6
(360, 121) (1092,25) (48, 48)	0; 2, 3, 7] [0; 2, 2, 4, 6] [0; 2, 4, 18] [0; 3, 4, 4]	14 1, 2, 3, 3, 3, 3
(360, 121) (1092,25) (48, 48) (144, 109) (168, 42)	$0; 2, 3, 7] \\ [0; 2, 2, 4, 6] \\ [0; 2, 4, 18]$	14 1, 2, 3, 3, 3, 3 3, 6, 6 7, 8
(360, 121) (1092,25) (48, 48) (144, 109) (168, 42) (336, 208)	$\begin{array}{c} 0; 2, 3, 7] \\ \hline [0; 2, 2, 4, 6] \\ [0; 2, 4, 18] \\ [0; 3, 4, 4] \\ [0; 2, 4, 6] \end{array}$	14 1, 2, 3, 3, 3, 3 3, 6, 6 7, 8 7, 8
(360, 121) (1092,25) (48, 48) (144, 109) (168, 42) (336, 208) (504, 156)	$\begin{array}{c} 0;2,3,7] \\ \hline [0;2,2,4,6] \\ [0;2,4,18] \\ [0;3,4,4] \\ [0;2,4,6] \\ [0;2,3,9] \end{array}$	14 1, 2, 3, 3, 3, 3 3, 6, 6 7, 8 7, 8 7, 8 1, 1, 2,, 2
(360, 121) (1092,25) (48, 48) (144, 109) (168, 42) (336, 208) (504, 156) (36, 13)	0; 2, 3, 7] [0; 2, 2, 4, 6] [0; 2, 4, 18] [0; 3, 4, 4] [0; 2, 4, 6] [0; 2, 3, 9] [0; 2, 2, 2, 2, 6]	$ \begin{array}{c} 14 \\ 1, 2, 3, 3, 3, 3 \\ 3, 6, 6 \\ 7, 8 \\ 7, 8 \\ 7, 8 \\ 1, 1, \underbrace{2, \dots, 2}_{7} \end{array} $
(360, 121) (1092,25) (48, 48) (144, 109) (168, 42) (336, 208) (504, 156) (36, 13) (72, 40)	$\begin{array}{c} 0;2,3,7] \\ [0;2,2,4,6] \\ [0;2,4,18] \\ [0;3,4,4] \\ [0;2,4,6] \\ [0;2,3,9] \\ [0;2,2,2,2,6] \\ \end{array}$	$ \begin{array}{c} 14 \\ 1, 2, 3, 3, 3, 3 \\ 3, 6, 6 \\ 7, 8 \\ 7, 8 \\ 7, 8 \\ 1, 1, 2, \dots, 2 \\ 4, 4, 4, 4, 4, \end{array} $
(360, 121) (1092,25) (48, 48) (144, 109) (168, 42) (336, 208) (504, 156) (36, 13) (72, 40) (108, 26)	$\begin{array}{c} 0;2,3,7] \\ [0;2,2,4,6] \\ [0;2,4,18] \\ [0;3,4,4] \\ [0;2,4,6] \\ [0;2,3,9] \\ [0;2,2,2,2,6] \\ \end{array}$	$ \begin{array}{c} 14\\ 1, 2, 3, 3, 3, 3\\ 3, 6, 6\\ 7, 8\\ 7, 8\\ 7, 8\\ 1, 1, 2, \dots, 2\\ 4, 4, 4, 4, 4, 1, 1, 2, 6, 6 \end{array} $
(360, 121) (1092,25) (48, 48) (144, 109) (168, 42) (336, 208) (504, 156) (36, 13) (72, 40) (108, 26) (120, 34)	$\begin{array}{c} 0;2,3,7]\\ [0;2,2,4,6]\\ [0;2,4,18]\\ [0;3,4,4]\\ [0;2,4,6]\\ [0;2,3,9]\\ [0;2,2,2,2,6]\\ \end{array}$ $\begin{array}{c} [0;4,6,6]\\ [0;2,6,18]\\ [0;3,4,6]\\ \end{array}$	$ \begin{array}{c} 14 \\ 1, 2, 3, 3, 3, 3 \\ 3, 6, 6 \\ 7, 8 \\ 7, 8 \\ 7, 8 \\ 1, 1, 2, \dots, 2 \\ 4, 4, 4, 4, 4, 4, 4, 1, 1, 2, 6, 6 \end{array} $
(360, 121) (1092,25) (48, 48) (144, 109) (168, 42) (336, 208) (504, 156) (36, 13) (72, 40) (108, 26) (120, 34) (64, 138)	$\begin{array}{c} 0;2,3,7] \\ [0;2,2,4,6] \\ [0;2,4,18] \\ [0;3,4,4] \\ [0;2,4,6] \\ [0;2,3,9] \\ [0;2,2,2,2,6] \\ \end{array}$ $\begin{array}{c} [0;4,6,6] \\ [0;2,6,18] \\ [0;3,4,6] \\ [0;2,2,4,4] \\ \end{array}$	$ \begin{array}{c} 14\\ 1, 2, 3, 3, 3, 3\\ 3, 6, 6\\ 7, 8\\ 7, 8\\ 7, 8\\ 1, 1, 2, \dots, 2\\ \hline 4, 4, 4, 4, 4, 4, 4, 1, 1, 2, 6, 6\\ 5, 5, 6\\ 1, 2, 2, 2, 2, 2, 4, 4 \end{array} $
(360, 121) (1092,25) (48, 48) (144, 109) (168, 42) (336, 208) (504, 156) (36, 13) (72, 40) (108, 26) (120, 34) (64, 138) (64, 134)	$\begin{array}{c} 0;2,3,7]\\ [0;2,2,4,6]\\ [0;2,4,18]\\ [0;3,4,4]\\ [0;2,4,6]\\ [0;2,3,9]\\ [0;2,2,2,2,6]\\ \end{array}$ $\begin{array}{c} [0;4,6,6]\\ [0;2,6,18]\\ [0;3,4,6]\\ \end{array}$	$ \begin{array}{c} 14\\ 1, 2, 3, 3, 3, 3\\ 3, 6, 6\\ 7, 8\\ 7, 8\\ 7, 8\\ 1, 1, 2, \dots, 2\\ \hline 4, 4, 4, 4, 4, \\ 1, 1, 2, 6, 6\\ 5, 5, 6\\ 1, 2, 2, 2, 2, 4, 4\\ 1, 1, 1, 2, 2, 2, 4, 4 1, 1, 1, 2, 2, 2, 4, 4 \end{array} $
(360, 121) (1092,25) (48, 48) (144, 109) (168, 42) (336, 208) (504, 156) (36, 13) (72, 40) (108, 26) (120, 34) (64, 138) (64, 134) (64, 138)	$\begin{array}{c} 0;2,3,7] \\ [0;2,2,4,6] \\ [0;2,4,18] \\ [0;3,4,4] \\ [0;2,4,6] \\ [0;2,3,9] \\ [0;2,2,2,2,6] \\ \end{array}$ $\begin{array}{c} [0;4,6,6] \\ [0;2,6,18] \\ [0;3,4,6] \\ [0;2,2,4,4] \\ \end{array}$	$ \begin{array}{c} 14\\ 1, 2, 3, 3, 3, 3\\ 3, 6, 6\\ 7, 8\\ 7, 8\\ 7, 8\\ 1, 1, 2, \dots, 2\\ 4, 4, 4, 4, 4, 4, 4, 4, 1, 1, 2, 6, 6\\ 5, 5, 6\\ 1, 2, 2, 2, 2, 2, 4, 4\\ 1, 1, 1, 2, 2, 2, 4, 4 1, 1, 1, 2, 2, 2, 4, 4 1, 1, 1, 2, 2, 2, 4, 4 \end{array} $
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(360, 121) (1092,25) (48, 48) (144, 109) (168, 42) (336, 208) (504, 156) (36, 13) (72, 40) (108, 26) (120, 34) (64, 138) (64, 138) (64, 138) (64, 202) (64, 211) (64, 215) (64, 216)	$\begin{array}{c} 0;2,3,7] \\ [0;2,2,4,6] \\ [0;2,4,18] \\ [0;3,4,4] \\ [0;2,4,6] \\ [0;2,3,9] \\ [0;2,2,2,2,6] \\ \end{array}$ $\begin{array}{c} [0;4,6,6] \\ [0;2,6,18] \\ [0;3,4,6] \\ [0;2,2,4,4] \\ \end{array}$	14 1, 2, 3, 3, 3, 3 3, 6, 6 7, 8 7, 8 7, 8 7, 8 1, 1, 2,, 2 4, 4, 4, 4, 4, 1, 1, 2, 6, 6 5, 5, 6 1, 2, 2, 2, 2, 4, 4 1, 1, 1, 2, 2, 2, 4, 4 1, 1, 1, 2, 2, 2, 4, 4 1, 1, 1, 1, 2, 2, 2, 4, 4 1, 1, 1, 1, 2, 2, 2, 4, 4 1, 1, 1, 1, 2, 2, 2, 2, 2, 2 same as above 1, 1, 1, 1, 1, 2, 2, 2, 4, 4 same as above 1, 1, 1, 1, 2, 2, 4, 4 same as above
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(360, 121) (1092,25) (48, 48) (144, 109) (168, 42) (336, 208) (504, 156) (36, 13) (72, 40) (108, 26) (120, 34) (64, 138) (64, 138) (64, 138) (64, 202) (64, 211) (64, 215) (64, 216) (64, 226) (64, 241) (64, 254) (96, 195) (96, 70) (96, 72) (96, 227) (96, 147) (96, 195) (96, 226) (128, 327)	$\begin{array}{c} 0;2,3,7] \\ [0;2,2,4,6] \\ [0;2,4,18] \\ [0;3,4,4] \\ [0;2,4,6] \\ [0;2,3,9] \\ [0;2,2,2,2,6] \\ \end{array}$ $\begin{array}{c} [0;4,6,6] \\ [0;2,6,18] \\ [0;3,4,6] \\ [0;2,2,4,4] \\ [0;2,2,2,2,2] \\ \end{array}$ $\begin{array}{c} [0;4,4,6] \\ [0;3,6,6] \\ [0;2,2,2,2,2] \\ \end{array}$ $\begin{array}{c} [0;4,4,6] \\ [0;2,2,2,2,2] \\ \end{array}$ $\begin{array}{c} [0;2,2,2,3,3] \\ [0;2,2,2,6] \\ \end{array}$	14 1, 2, 3, 3, 3, 3 3, 6, 6 7, 8 7, 8 7, 8 1, 1, 2,, 2 4, 4, 4, 4, 4, 1, 1, 1, 2, 6, 6 5, 5, 6 1, 2, 2, 2, 2, 4, 4 1, 1, 1, 1, 2, 2, 2, 4, 4 1, 1, 1, 1, 2, 2, 2, 4, 4 1, 1, 1, 1, 1, 2, 2, 2, 2, 2, 2 same as above 1, 1, 1, 1, 1, 1, 2, 2, 2, 4, 4 same as above 1, 1, 1, 1, 1, 1, 2, 2, 2, 4, 4 same as above 1, 1, 1, 1, 1, 2, 2, 2, 4, 4 1, 1, 1, 1, 1, 1, 2, 2, 2, 4, 4 1, 1, 1, 1, 1, 1, 2, 2, 2, 4, 4 1, 1, 1, 1, 1, 1, 2, 2, 2, 4, 4 1, 1, 3, 6, 6 same as above 2, 3, 3, 3, 6 1, 1, 3, 6, 6 same as above 2, 3, 3, 3, 6 1, 2, 2, 2, 2, 4, 4 1, 2, 2, 3, 3, 6 1, 2, 2, 3, 3, 6 1, 2, 2, 3, 3, 6 1, 2, 2, 3, 3, 3, 3 1, 2, 2, 4, 4, 4
(360, 121) (1092,25) (48, 48) (144, 109) (168, 42) (336, 208) (504, 156) (36, 13) (72, 40) (108, 26) (120, 34) (64, 138) (64, 138) (64, 138) (64, 211) (64, 215) (64, 216) (64, 216) (64, 226) (64, 241) (64, 254) (96, 195) (96, 70) (96, 72) (96, 147) (96, 195) (96, 226) (128, 327) (128, 330)	$\begin{array}{c} 0;2,3,7] \\ [0;2,2,4,6] \\ [0;2,4,18] \\ [0;3,4,4] \\ [0;2,4,6] \\ [0;2,3,9] \\ [0;2,2,2,2,6] \\ \end{array}$ $\begin{array}{c} [0;4,6,6] \\ [0;2,6,18] \\ [0;3,4,6] \\ [0;2,2,4,4] \\ [0;2,2,2,2,2] \\ \end{array}$ $\begin{array}{c} [0;4,4,6] \\ [0;3,6,6] \\ [0;2,2,2,2,2] \\ \end{array}$ $\begin{array}{c} [0;4,4,6] \\ [0;2,2,2,2,2] \\ \end{array}$ $\begin{array}{c} [0;2,2,2,3,3] \\ [0;2,2,2,6] \\ \end{array}$	14 1, 2, 3, 3, 3, 3 3, 6, 6 7, 8 7, 8 7, 8 7, 8 1, 1, 2,, 2 4, 4, 4, 4, 4, 1, 1, 2, 6, 6 5, 5, 6 1, 2, 2, 2, 2, 4, 4 1, 1, 1, 2, 2, 2, 4, 4 1, 1, 1, 1, 2, 2, 2, 4, 4 1, 1, 1, 1, 2, 2, 2, 4, 4 1, 1, 1, 1, 1, 2, 2, 2, 2, 2, 2 same as above 1, 1, 1, 1, 1, 1, 2, 2, 2, 4, 4 same as above 1, 1, 1, 1, 1, 1, 2, 2, 2, 4, 4 1, 1, 1, 1, 1, 1, 2, 2, 2, 4 1, 1, 1, 1, 1, 2, 2, 2, 4 1, 1, 1, 1, 1, 2, 2, 2, 4 1, 1, 1, 1, 1, 2, 2, 2, 4 1, 1, 1, 1, 1, 2, 2, 2, 4 1, 1, 1, 1, 1, 2, 2, 2, 4 1, 1, 1, 1, 1, 2, 2, 4, 4 1, 1, 2, 2, 3, 3, 3, 6 1, 2, 2, 2, 2, 4, 4 1, 2, 2, 3, 3, 6 1, 2, 2, 3, 3, 6 1, 2, 2, 3, 3, 6 1, 2, 2, 4, 4, 4 same as above 4 same as above 4 same as above 8 same as above 9 same as above
	(24, 14) (48, 48) (48, 38) (96, 189) (96, 32) (120, 34) (120, 34) (120, 36) (160, 85) (240, 189) (32, 27) (32, 27) (32, 34) (32, 46) (36, 13) (48, 49) (48, 50) (48, 48) (48, 48) (48, 48) (48, 48) (48, 48) (48, 48) (48, 51) (64, 32) (64, 134) (64, 150) (72, 45) (72, 44) (72, 21) (72, 43) (72, 23) (72, 46) (96, 70) (96, 197) (96, 89) (96, 187) (96, 226) (120, 35) (128, 71) (144, 184) (144, 190)	(24, 14) (0; 2, 2, 2, 2, 6] (48, 48) (0; 2, 2, 3, 4] (48, 38) (0; 2, 2, 2, 12] (96, 189) (0; 2, 6, 8] (96, 32) (0; 2, 4, 24] (120, 34) (0; 3, 4, 4] (120, 36) (0; 2, 4, 12] (160, 85) (0; 2, 4, 6] (32, 27) (0; 2, 4, 4, 4] (32, 27) (0; 2, 2, 2, 2, 4] (32, 34) (32, 34) (32, 46) (36, 13) (36, 13) (0; 2, 2, 2, 2, 2, 3] (48, 49) (0; 6, 6; 6] (48, 50) (0; 2, 3, 3, 3] (48, 48) (0; 2, 2, 2, 2, 2] (48, 51) (64, 32) (0; 4, 4, 8] (64, 134) (0; 2, 2, 2, 2, 2] (48, 51) (0; 4, 4, 8] (64, 150) (72, 45) (0; 4, 4, 6] (72, 44) (0; 3, 6, 6] (72, 21) (0; 2, 2, 2, 3) (72, 24) (0; 2, 2, 2, 3, 3] (72, 46) (72, 26) (72, 46) (72, 46) (72, 46) (96, 197)

Table 1: (continued)

	A	G: · · · ·	Total to Discount with
<i>g</i>	Automorphism Group (128, 740)	Signature	Jacobian Decomposition 1, 2, 2, 2, 2, 8
	(128, 743)		1, 2, 2, 2, 2, 4, 4
	(128, 753)		same as above
	(128, 922)		1, 2, 2, 4, 8
	(128, 928)		1, 2, 2, 4, 4, 4
	(128, 932)	[0 0 0]	1, 2, 2, 4, 8
	(168, 42)	[0; 3, 3, 7]	3, 6, 8
	(192, 1493) (192, 201)	[0; 3, 4, 4] [0; 2, 6, 6]	same as above 3, 4, 4, 6
	(192, 1000)	[0, 2, 0, 0]	1, 1, 3, 6, 6
	(192, 1002)		same as above
	(192, 1008)		1, 1, 3, 12
	(192, 33)	[0; 2, 4, 12]	1, 2, 2, 4, 8
	(192, 972) (192, 988)		1, 2, 2, 3, 3, 6 2, 3, 4, 8
	(192, 956)	[0; 2, 2, 2, 3]	2, 3, 6, 6
	(192, 1494)		3, 3, 3, 8
	(192, 1538)		2, 3, 3, 3, 6
	(256, 382)	[0; 2, 4, 8]	1, 2, 2, 4, 8
	(256, 390) (256, 396)		same as above 1, 2, 2, 4, 4, 4
	(256, 515)		1, 8, 8
	(336, 209)	[0; 2, 3, 14]	3, 6, 8
	(384, 5602)	[0; 2, 4, 6]	same as above
	(384, 5604)		same as above
	(384, 5657)		2, 3, 6, 6
	(384, 5677) (768, 1085341)	[0; 2, 3, 8]	2, 3, 12 same as above
	(1344, 814)	[0; 2, 3, 7]	3, 14
19	(54, 14)	[0; 2, 2, 2, 2, 3]	1, 2, 2, 2, 2, 2, 2, 2, 2
	(72, 46)	[0; 2, 2, 2, 2, 2]	1, 1, 1, 2, 2, 2, 2, 4, 4
	(72, 49)	[0 0 0 0 0]	1, 1, 1, 2, 2, 2, 2, 2, 2, 2
	(96, 189) (108, 39)	[0; 2, 2, 2, 8]	1, 2, 2, 3, 3, 4, 4 1, 2, 4, 4, 4, 4
	(120, 34)	[0; 2, 2, 2, 6] [0; 4, 4, 5]	4, 4, 5, 6
	(144, 183)	[0; 2, 6, 12]	3, 4, 6, 6
	(144, 109)	[0; 2, 2, 2, 4]	1, 3, 3, 6, 6
	(144, 172)		1, 2, 4, 4, 4
	(144, 186)		same as above
	(144, 189) (162, 11)	[0; 2, 6, 9]	1, 3, 3, 6, 6 1, 6, 6, 6
	(216, 156)	[0; 2, 4, 12]	1, 2, 8, 8
	(240, 189)	[0; 2, 4, 10]	4, 4, 5, 6
	(288, 430)	[0; 2, 4, 8]	1, 2, 8, 8
	(288, 841)	[0.0.4.7]	same as above
	(336, 209) (360, 118)	[0; 2, 4, 7] [0; 2, 5, 5]	3, 3, 6, 7 9, 10
	(720, 766)	[0; 2, 4, 5]	9, 10
21	(96, 227)	[0; 2, 2, 3, 4]	3, 3, 3, 3, 3, 6
	(96, 144)	[0; 2, 2, 2, 12]	$1, 2, \ldots, 2, 4, 4$
			6
	(192, 956)	[0; 2, 6, 8]	3, 6, 6, 6
	(192, 34)	[0; 2, 4, 24]	1, 2, 2, 4, 4, 8
	(240, 189) (240, 91)	[0; 2, 6, 6] [0; 2, 4, 12]	5, 5, 5, 6 4, 5, 6, 6
	(480, 951)	[0; 2, 4, 12] [0; 2, 4, 6]	5, 6, 10
22	(256, 26)	[0; 2, 6, 6]	1, 1, 2, 6, 12
	(336, 208)	[0; 2, 4, 8]	7, 7, 8
	(1008, 881)	0; 2, 3, 8	8, 14
24	(504, 160) (120, 34)	$ \begin{array}{c} [0; 2, 3, 12] \\ [0; 4, 5, 6] \end{array} $	1, 3, 18 4, 4, 5, 5, 6
	(168, 42)	[0; 3, 4, 7]	3, 6, 7, 8
25	(576,1997)	[0; 2, 3, 12]	1, 2, 4, 6, 12
	(576,8270)		1, 2, 3, 4, 6, 9
	(320,1636)	[0; 2, 4, 10]	5, 5, 5, 5, 5
	(288,386) (256,511)	[0; 2, 4, 12] [0; 2, 4, 16]	1, 4, 4, 4, 4, 8 1, 4, 4, 8, 8
	(144,65)	[0; 2, 1, 10] [0; 2, 12, 12]	1, 2, 2, 2, 2, 4, 4, 4, 4
	(144, 136)	[0; 4, 4, 6]	1, 4, 4, 4, 4, 4, 4
	(288,847)	[0; 2, 2, 2, 3]	2, 2, 3, 4, 6, 8
	(192,300)	[0; 2, 2, 2, 4]	1, 2, 2, 4, 4, 4, 8
	(192,306) (192,1470)		same as above 1, 3, 3, 3, 3, 6, 6
	(192,1470)		1, 2, 3, 3, 3, 4, 6
	(144,151)	[0; 2, 2, 2, 6]	1, 2, 2, 2, 2, 4, 4, 4, 4
	(144,154)		same as above
	(144,153)		$1, 2, \dots, 2, 4, 4, 4$
			6
	(144, 183)		1, 2, 3, 3, 4, 6, 6

Table 1: (continued)

g	Automorphism Group	Signature	Jacobian Decomposition
	(128,387)	[0; 2, 2, 2, 8]	1, 2, 2, 4, 4, 4, 4, 4
	(128,388)		same as above
	(128,734)	[0 0 0 11]	1, 2, 2, 2, 2, 4, 4, 4, 4
26	(660, 13)	[0; 2, 3, 11]	5, 10, 11
28	(1296,2889) (648,703)	[0; 2, 3, 8] [0; 2, 3, 12]	2, 8, 18 8, 8, 12
	(648,262)	[0, 2, 3, 12]	1, 3, 6, 18
	(432,248)	[0; 2, 3, 24]	1, 2, 3, 4, 6, 12
	(648,545)	[0; 2, 4, 6]	2, 4, 4, 6, 12
	(324,39)	[0; 2, 6, 6]	4, 6, 6, 6, 6
	(324,116)	[0, 0, 0, 0]	1, 1, 2, 2, 4, 6, 12
	(324,124) (216,94)	[0; 2, 2, 2, 3] [0; 2, 2, 2, 4]	2, 2, 2, 4, 6, 6, 6 1, 3, 6, 6, 6, 6
	(144,125)	[0; 2, 2, 2, 3]	1, 2, 3, 4, 4, 4, 6
29	(240, 189)	[0; 2, 6, 10]	4, 4, 5, 5, 5, 6
	(336, 208)	[0; 2, 6, 6]	6, 7, 8, 8
- 0.1	(672, 1254)	[0; 2, 4, 6]	6, 7, 8, 8
31	(144, 154)	[0; 2, 2, 2, 12]	$1, 2, 2, 2, 4, \dots, 4$
			6
	(336, 209)	[0; 2, 4, 14]	3, 6, 7, 7, 8
- 22	(720, 767)	[0; 2, 4, 6]	5, 6, 8, 12
33	(1536,408544637) (768,1083524)	[0; 2, 3, 8] [0; 2, 3, 12]	2, 3, 12, 16 $1, 2, 6, 12, 12$
	(768,1083527)	[0, 2, 0, 12]	same as above
	(768,1083522)		same as above
	(768,1083520)		1, 2, 6, 24
	(768,1086051)	[0; 2, 4, 6]	3, 6, 12, 12
	(768,1085625) (768,1086011)		2, 3, 4, 6, 6, 12
	(768,1086051)		2, 3, 6, 6, 8, 8 3, 6, 8, 16
	(768,1085778)		2, 3, 4, 12, 12
	(512, 1822)	[0; 2, 4, 8]	1, 2, 2, 4, 8, 8, 8
	(512, 1838)		same as above
	(512, 1818)		1, 2, 2, 4, 8, 16 same as above
	(512, 1832) (512, 409)		1, 2, 2, 4, 4, 4, 8, 8
	(512, 1862)		same as above
	(512,1854)		1, 2, 2, 4, 4, 4, 16
	(384,5567)	[0; 2, 4, 12]	3, 6, 6, 6, 6, 6
	(384,5654)		1, 2, 2, 3, 3, 4, 4, 6, 8
	(384,5625) (384,591)	[0; 2, 6, 6]	1, 2, 2, 3, 3, 4, 6, 12 3, 6, 12, 12
	(384,18135)	[0; 3, 4, 4]	3, 6, 12, 12
	(192,955)	[0; 4, 4, 6]	3, 3, 3, 6, 6, 6, 6
	(384,18136)	[0; 2, 2, 2, 3]	3, 3, 3, 8, 8, 8
	(384,20090)		2, 3, 3, 3, 6, 8, 8
	(384,20086) (256,2918)	[0; 2, 2, 2, 4]	2, 3, 3, 3, 4, 6, 12 1, 2, 2, 2, 2, 4, 4, 4, 4, 8
	(256,2934)	[0, 2, 2, 2, 1]	same as above
	(256,3180)		same as above
	(256,6334)		same as above
	(256, 2950)		$1, 2, 2, 2, 2, 4, \dots, 4$
			6
	(256,3288)		same as above
	(256,3292) (256,3324)		same as above same as above
	(256,2968)		1, 2, 2, 2, 2, 4, 4, 8, 8
	(256,3200)		same as above
	(256,3206)		same as above
	(256,6329)		same as above
	(256,3196)		1, 2, 2, 2, 2, 8, 8, 8
	(256,5078)		$1, 2, 2, \underbrace{4, \ldots, 4}$
			7
	(256,5082)		1, 2, 2, 4, 4, 4, 8, 8
	(256,5102) (256,6665)		same as above same as above
	(256,5136)		1, 2, 2, 4, 4, 4, 4, 8
	(192,1472)	[0; 2, 2, 2, 6]	1, 2, 2, 3, 3, 3, 3, 4, 6, 6
	(192,1488)	[0.0.0.0]	1, 2, 2, 2, 2, 3, 3, 3, 3, 6, 6
36	(336, 208)	[0; 2, 6, 8]	6, 7, 7, 8, 8
37	(1728,31096) (864,3988)	[0; 2, 3, 8] [0; 2, 3, 12]	2, 3, 8, 24 1, 3, 6, 9, 18
	(648,706)	[0; 2, 3, 12] [0; 2, 3, 18]	1, 4, 4, 4, 6, 6, 12
	(576,8271)	[0; 2, 3, 24]	1, 2, 3, 4, 6, 9, 12
	(864,4670)	[0; 2, 4, 6]	2, 3, 4, 4, 12, 12
	(576,2035)	[0; 2, 4, 8]	1, 4, 8, 8, 8, 8
	(576,5046) (480,951)	[0; 2, 4, 10]	1, 2, 2, 8, 8, 16 4, 4, 5, 6, 8, 10
	(400,301)	[0, 2, 4, 10]	1, 1, 0, 0, 0, 10

Table 1: (continued)

			,
g	Automorphism Group	Signature	Jacobian Decomposition
	(432,568)	[0; 2, 4, 12]	1, 2, 2, 8, 8, 8
	(432,749)	[0; 2, 6, 6]	1, 1, 2, 2, 3, 4, 6, 6, 12
	(432,542) (216,99)	[0, 2, 6, 6]	1, 1, 2, 3, 6, 6, 6, 6, 6 1, 1, 2, 3, 6, 6, 6, 6, 6
	(432,748)	[0; 3, 6, 6] [0; 2, 2, 2, 3]	2, 2, 2, 3, 4, 6, 6, 12
	(432,523)	[0, 2, 2, 2, 0]	2, 2, 3, 6, 6, 6, 12
	(288,739)	[0; 2, 2, 2, 4]	$1, 2, 2, 4, \dots, 4$
	(,,	[-////	, , , , , , , , , , , , , , , , , , ,
	(200 1024)		1 2 2 2 2 6 6 6 6
	(288,1034) $(288,835)$		1, 3, 3, 3, 3, 6, 6, 6, 6 same as above
	(288,889)		1, 2, 2, 4, , 4, 8
	(,,		
	(000 000)		1 2 2 4 4 4 4 2 2
	(288,890)	[0, 2, 2, 2, 6]	1, 2, 2, 4, 4, 4, 8, 8
	(216,129)	[0; 2, 2, 2, 6]	$1,2,2,\underbrace{4,\ldots,4}$
			8
	(216,171)		same as above
	(216,162)	[0 0 0 0]	1, 2, 2, 2, 2, 4, 4, 4, 4, 8
41	(192,1475)	[0; 2, 2, 2, 8]	1, 2, 2, 2, 2, 3, 3, 3, 3, 4, 4, 4, 4
41	(960, 5719) $(480, 1189)$	[0; 2, 4, 6] [0; 2, 4, 12]	5, 6, 8, 10, 12 $1, 2, 3, 3, 8, 12, 12$
	(384, 5581)	[0; 2, 4, 12] [0; 2, 6, 8]	2, 2, 3, 4, 6, 6, 6, 12
43	(672, 1254)	[0; 2, 4, 8]	6, 7, 7, 7, 8, 8
46	(324, 69)	[0; 2, 6, 18]	$1, 1, 2, 6, \dots, 6$
49	(1152, 155454)	[0; 2, 3, 12]	7 1, 3, 9, 18, 18
43	(1008, 883)	[0; 2, 3, 12] [0; 2, 3, 14]	3, 6, 6, 8, 12, 14
	(1920, 240996)	[0; 2, 4, 5]	4, 10, 15, 20
	(1152, 157849)	[0; 2, 4, 6]	4, 6, 9, 12, 18
	(896, 19344)	[0; 2, 4, 7]	7, 7, 7, 7, 7, 14
	(576, 1962)	[0; 2, 4, 12]	$1, 4, \ldots, 4, 8, 8, 8$
			6
	(512, 1834)	[0; 2, 4, 16]	1, 2, 2, 4, 8, 8, 8, 8, 8
	(512, 1858)	. , , , ,	1, 2, 2, 4, 4, 4, 8, 8, 8, 8
	(512, 1826)		1, 2, 2, 4, 8, 8, 8, 8, 8
	(960, 11358)	[0; 2, 5, 5]	4, 10, 15, 20
	(576, 5562)	[0; 2, 6, 6]	1, 1, 2, 3, 6, 6, 6, 12, 12
	(576, 5566)		same as above
	(576, 8654) (384, 5797)	[0; 2, 6, 12]	4, 6, 9, 9, 9, 12 $1, 1, 2, 3, 6, \dots, 6$
	(001,0.01)	[0, 2, 0, 12]	1, 1, 2, 0, 0,, 0
	(576 9659)	[0 0 0 0]	7
	(576, 8653) (576, 8660)	[0; 2, 2, 2, 3]	2, 2, 3, 3, 6, 6, 9, 9, 9
	(384, 1706)	[0; 2, 2, 2, 4]	2, 2, 3, 3, 3, 6, 6, 6, 6, 12 $1, 2, 2, 4, 4, 4, 4, 4, 8, 8, 8$
	(384, 17856)	[0, 2, 2, 2, 1]	1, 3, 3, 3, 3, 6, , 6
	(,,		
	(384, 17873)		6
	(288, 627)	[0; 2, 2, 2, 6]	1, 2, 2, 3, 3, 3, 3, 4, 4, 6, 6, 6, 6 $1, 2, \dots, 2, 4, \dots, 4$
	(===, ==-)	[-,-,-,-,-]	
	(999 1099)		8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
	(288, 1028)	[0.0.0.0]	1, 2, 2, 3, 3, 3, 3, 4, 4, 6, 6, 6, 6
	(256, 3066)	[0; 2, 2, 2, 8]	$1, 2, 2, 2, 2, \underbrace{4, \dots, 4}_{}$
			10
	(256, 3268)		same as above
	(256, 3314)		same as above
	(256, 3076)		$1, 2, 2, 2, 2, \underbrace{4, \dots, 4}_{8}, 8$
	/		8
	(588, 37)	[0; 2, 6, 6]	1, 1, 6, 6, 12, 12, 12
55	(1296, 3490)	[0; 2, 4, 6]	3, 12, 12, 12, 16
	(432, 537)	[0; 2, 2, 2, 4]	$1,3,3,\underbrace{6,\ldots,6}$
			8
	(432, 741)	[0 0 0 0 0]	1, 2, 4, 4, 4, 4, 8, 8, 8, 8
	(288, 911)	[0; 2, 2, 2, 8]	$1, 2, 2, 3, 3, 4, \dots, 4, 6, 6$
			8
57	(1344, 11289)	[0; 2, 4, 6]	6, 7, 8, 8, 12, 16
61	(1440, 4605)	[0; 2, 4, 6]	2, 5, 6, 8, 8, 10, 10, 12
	(720, 767)	[0; 2, 6, 6]	5, 5, 5, 6, 8, 10, 10, 12
	(288, 629)	[0; 2, 2, 2, 12]	$1, 2, \ldots, 2, 4, \ldots, 4$
			6 12
65	30721	[0; 2, 3, 8]	2, 3, 12, 24, 24
	(1920, 240995)	[0; 2, 3, 10]	5, 15, 15, 15, 15
	2560	[0; 2, 4, 5]	5, 10, 10, 20, 20
	15363	[0; 2, 4, 6]	3, 6, 8, 12, 12, 12, 12
	1536_{5}		same as above

Table 1: (continued)

		Table 1. (e	onemaca)
g	Automorphism Group	Signature	Jacobian Decomposition
	1536_{4}		2, 3, 6, 6, 12, 12, 24
	1536_{7}		same as above
	1536_{6}		2, 3, 6, 6, 12, 12, 12, 12
	15369		2, 3, 6, 6, 8, 8, 8, 24
	1536_{10}		2, 3, 6, 6, 8, 8, 16, 16
	1024_{6}	[0; 2, 4, 8]	1, 2, 2, 4, 8, 8, 8, 16, 16
	1024_{8}		same as above
	1024_{15}		same as above
	10247		1, 2, 2, 4, 4, 4, 8, 8, 8, 8, 16
	1024 ₁₀		same as above
	1024 ₁₁	[0. 0. 4. 10]	same as above
	(768, 1085995)	[0; 2, 4, 12]	1, 2, 2, 3, 3, 4, 6, 8, 12, 12, 12
	(1280, 1116310)	[0; 2, 5, 5]	5, 10, 10, 20, 20
	(768, 1083691)	[0; 2, 6, 6]	$1, 1, 3, 6, \dots, 6, 12, 12$
			6
	(768, 1083794)		1, 1, 3, 6, 6, 12, 12, 12, 12
	(768, 1083785)		same as above
	(768, 1083783)		same as above
	(960, 11357)	[0; 3, 3, 5]	5, 15, 15, 15, 15
	(768, 1090018)	[0; 2, 2, 2, 3]	$2, 3, 3, 3, 6, 8, \dots, 8$
	(768, 1090002)		$\begin{smallmatrix} 6 \\ 2, 3, 3, 3, 4, 4, 6, 8, 8, 12, 12 \end{smallmatrix}$
	(768, 1090071)		2, 3, 3, 3, 6, 6, 6, 6, 6, 12, 12
	(512, 9905)	[0; 2, 2, 2, 4]	1, 2, 2, 2, 2, 4, , 4, 8, 8
	(, 0000)	.~, -, -, -, -,	, , -, -, -, -, -, -, -, -, -, -, -, -,
	/###·		, 10
	(512, 9981)		same as above
	(512, 10393)		same as above
	(512, 49991)		same as above
	(512, 51582)		same as above
	(512, 11841)		$1, 2, 2, 2, 2, \underbrace{4, \dots, 4}_{}, 8, 8, 8, 8$
			6
	(512, 50000)		same as above
	(512, 50165)		same as above
	(512, 51325)		same as above
	(E10 E1E76)		L
	(512, 51576)		same as above
	(512, 51376) (512, 60359)		1, 2, 2, 2, 2, 4, 4, 4, 4, 8, 8, 8, 8, 8
	(512, 60359) (512, 60371)		1, 2, 2, 2, 2, 4, 4, 4, 4, 8, 8, 8, 8, 8
	(512, 60359)	[0; 2, 2, 2, 6]	1, 2, 2, 2, 2, 4, 4, 4, 4, 8, 8, 8, 8, 8
	(512, 60359) (512, 60371)	[0; 2, 2, 2, 6]	1, 2, 2, 2, 2, 4, 4, 4, 4, 8, 8, 8, 8, 8
73	(512, 60359) (512, 60371)	[0; 2, 2, 2, 6]	
73	(512, 60359) (512, 60371) (384, 18072)		$1, 2, 2, 2, 2, 4, 4, 4, 4, 8, 8, 8, 8, 8$ $1, 2, 2, 2, 2, 3, 3, 3, 3, 4, 4, \underbrace{6, \dots, 6}_{6}$
73	(512, 60359) (512, 60371) (384, 18072) (1728, 46270) (1152, 6750) (1152, 5806)	$[0; 2, 4, 6] \\ [0; 2, 4, 8]$	$1, 2, 2, 2, 2, 4, 4, 4, 4, 8, 8, 8, 8, 8$ $1, 2, 2, 2, 2, 3, 3, 3, 3, 4, 4, \underbrace{6, \dots, 6}_{6}$ $2, 3, 4, 4, 4, 8, 8, 12, 12, 16$ $1, 4, 4, 8, 8, 8, 8, 16, 16$ $1, 2, 2, 4, 8, 8, 8, 8, 16, 16$
73	(512, 60359) (512, 60371) (384, 18072) (1728, 46270) (1152, 6750)	[0; 2, 4, 6]	$1, 2, 2, 2, 2, 4, 4, 4, 4, 8, 8, 8, 8$ $1, 2, 2, 2, 2, 3, 3, 3, 3, 4, 4, \underbrace{6, \dots, 6}_{6}$ $2, 3, 4, 4, 4, 8, 8, 12, 12, 16$ $1, 4, 4, 8, 8, 8, 8, 16, 16$
73	(512, 60359) (512, 60371) (384, 18072) (1728, 46270) (1152, 6750) (1152, 5806)	$[0; 2, 4, 6] \\ [0; 2, 4, 8]$	$1, 2, 2, 2, 2, 4, 4, 4, 4, 8, 8, 8, 8, 8$ $1, 2, 2, 2, 2, 3, 3, 3, 3, 4, 4, \underbrace{6, \dots, 6}_{6}$ $2, 3, 4, 4, 4, 8, 8, 12, 12, 16$ $1, 4, 4, 8, 8, 8, 8, 16, 16$ $1, 2, 2, 4, 8, 8, 8, 8, 16, 16$
73	(512, 60359) (512, 60371) (384, 18072) (1728, 46270) (1152, 6750) (1152, 5806) (864, 2695)	$[0; 2, 4, 6] \\ [0; 2, 4, 8]$	$1, 2, 2, 2, 2, 4, 4, 4, 4, 8, 8, 8, 8$ $1, 2, 2, 2, 2, 3, 3, 3, 3, 4, 4, \underbrace{6, \dots, 6}_{6}$ $2, 3, 4, 4, 4, 8, 8, 12, 12, 16$ $1, 4, 4, 8, 8, 8, 8, 16, 16$ $1, 2, 2, 4, 8, 8, 8, 8, 16, 16$ $1, 2, 2, 4, \underbrace{8, \dots, 8}_{8}$
73	(512, 60359) (512, 60371) (384, 18072) (1728, 46270) (1152, 6750) (1152, 5806) (864, 2695) (864, 4668)	[0; 2, 4, 6] [0; 2, 4, 8] [0; 2, 4, 12]	$1, 2, 2, 2, 2, 4, 4, 4, 4, 8, 8, 8, 8$ $1, 2, 2, 2, 2, 3, 3, 3, 3, 4, 4, \underbrace{6, \dots, 6}_{6}$ $2, 3, 4, 4, 4, 8, 8, 12, 12, 16$ $1, 4, 4, 8, 8, 8, 8, 16, 16$ $1, 2, 2, 4, 8, 8, 8, 8, 16, 16$ $1, 2, 2, 4, 8, \dots, 8$ $1, 2, 3, 3, 8, 8, 12, 12, 12, 12$
73	(512, 60359) (512, 60371) (384, 18072) (1728, 46270) (1152, 6750) (1152, 5806) (864, 2695)	$[0; 2, 4, 6] \\ [0; 2, 4, 8]$	$1, 2, 2, 2, 2, 4, 4, 4, 4, 8, 8, 8, 8$ $1, 2, 2, 2, 2, 3, 3, 3, 3, 4, 4, \underbrace{6, \dots, 6}_{6}$ $2, 3, 4, 4, 4, 8, 8, 12, 12, 16$ $1, 4, 4, 8, 8, 8, 8, 16, 16$ $1, 2, 2, 4, 8, \dots, 8$ $1, 2, 3, 3, 8, 8, 12, 12, 12, 12$ $1, \underbrace{6, \dots, 6}_{8}$
73	(512, 60359) (512, 60371) (384, 18072) (1728, 46270) (1152, 6750) (1152, 5806) (864, 2695) (864, 4668) (648, 294)	[0; 2, 4, 6] [0; 2, 4, 8] [0; 2, 4, 12] [0; 2, 6, 9]	$1, 2, 2, 2, 2, 4, 4, 4, 4, 8, 8, 8, 8$ $1, 2, 2, 2, 2, 3, 3, 3, 3, 4, 4, \underbrace{6, \dots, 6}_{6}$ $2, 3, 4, 4, 4, 8, 8, 12, 12, 16$ $1, 4, 4, 8, 8, 8, 8, 16, 16$ $1, 2, 2, 4, 8, 8, 8, 16, 16$ $1, 2, 2, 4, \underbrace{8, 8, 8, 16, 16}_{1, 2, 2, 4, \underbrace{8, \dots, 8}_{8}}$ $1, 2, 3, 3, 8, 8, 12, 12, 12, 12$ $1, \underbrace{6, \dots, 6}_{12}$
73	(512, 60359) (512, 60371) (384, 18072) (1728, 46270) (1152, 6750) (1152, 5806) (864, 2695) (864, 4668)	[0; 2, 4, 6] [0; 2, 4, 8] [0; 2, 4, 12]	$1, 2, 2, 2, 2, 4, 4, 4, 4, 8, 8, 8, 8$ $1, 2, 2, 2, 2, 3, 3, 3, 3, 4, 4, \underbrace{6, \dots, 6}_{6}$ $2, 3, 4, 4, 4, 8, 8, 12, 12, 16$ $1, 4, 4, 8, 8, 8, 8, 16, 16$ $1, 2, 2, 4, 8, 8, 8, 16, 16$ $1, 2, 2, 4, \underbrace{8, 8, 8, 16, 16}_{1, 2, 2, 4, \underbrace{8, \dots, 8}_{8}}$ $1, 2, 3, 3, 8, 8, 12, 12, 12, 12$ $1, \underbrace{6, \dots, 6}_{12}$
73	(512, 60359) (512, 60371) (384, 18072) (1728, 46270) (1152, 6750) (1152, 5806) (864, 2695) (864, 4668) (648, 294) (576, 4322)	[0; 2, 4, 6] [0; 2, 4, 8] [0; 2, 4, 12] [0; 2, 6, 9]	$1, 2, 2, 2, 2, 4, 4, 4, 4, 8, 8, 8, 8$ $1, 2, 2, 2, 2, 3, 3, 3, 3, 4, 4, 6, \dots, 6$ $2, 3, 4, 4, 4, 8, 8, 12, 12, 16$ $1, 4, 4, 8, 8, 8, 8, 16, 16$ $1, 2, 2, 4, 8, 8, 8, 8, 16, 16$ $1, 2, 2, 4, 8, \dots, 8$ $1, 2, 3, 3, 8, 8, 12, 12, 12, 12$ $1, 6, \dots, 6$ $1, 1, 2, 2, 4, \dots, 4, 8, 8, 8, 8, 8$
73	(512, 60359) (512, 60371) (384, 18072) (1728, 46270) (1152, 6750) (1152, 5806) (864, 2695) (864, 4668) (648, 294) (576, 4322) (576, 4328)	[0; 2, 4, 6] [0; 2, 4, 8] [0; 2, 4, 12] [0; 2, 6, 9]	$1, 2, 2, 2, 2, 4, 4, 4, 4, 8, 8, 8, 8$ $1, 2, 2, 2, 2, 3, 3, 3, 3, 4, 4, \underbrace{6, \dots, 6}_{6}$ $2, 3, 4, 4, 4, 8, 8, 12, 12, 16$ $1, 4, 4, 8, 8, 8, 8, 16, 16$ $1, 2, 2, 4, 8, 8, 8, 8, 16, 16$ $1, 2, 2, 4, 8, \dots, 8$ $1, 2, 3, 3, 8, 8, 12, 12, 12, 12$ $1, \underbrace{6, \dots, 6}_{12}$ $1, 2, 2, \underbrace{4, \dots, 4}_{1}, 8, 8, 8, 8, 8$ same as above
73	(512, 60359) (512, 60371) (384, 18072) (1728, 46270) (1152, 6750) (1152, 5806) (864, 2695) (864, 4668) (648, 294) (576, 4322)	[0; 2, 4, 6] [0; 2, 4, 8] [0; 2, 4, 12] [0; 2, 6, 9]	$1, 2, 2, 2, 2, 4, 4, 4, 4, 8, 8, 8, 8$ $1, 2, 2, 2, 2, 3, 3, 3, 3, 4, 4, \underbrace{6, \dots, 6}_{6}$ $2, 3, 4, 4, 4, 8, 8, 12, 12, 16$ $1, 4, 4, 8, 8, 8, 8, 16, 16$ $1, 2, 2, 4, 8, 8, 8, 8, 16, 16$ $1, 2, 2, 4, 8, \dots, 8$ $1, 2, 3, 3, 8, 8, 12, 12, 12, 12$ $1, \underbrace{6, \dots, 6}_{12}$ $1, 2, 2, \underbrace{4, \dots, 4}_{1}, 8, 8, 8, 8, 8$ same as above
73	(512, 60359) (512, 60371) (384, 18072) (1728, 46270) (1152, 6750) (1152, 5806) (864, 2695) (864, 4668) (648, 294) (576, 4322) (576, 4328)	[0; 2, 4, 6] [0; 2, 4, 8] [0; 2, 4, 12] [0; 2, 6, 9]	$1, 2, 2, 2, 2, 4, 4, 4, 4, 8, 8, 8, 8$ $1, 2, 2, 2, 2, 3, 3, 3, 3, 4, 4, 6, \dots, 6$ $2, 3, 4, 4, 4, 8, 8, 12, 12, 16$ $1, 4, 4, 8, 8, 8, 8, 16, 16$ $1, 2, 2, 4, 8, 8, 8, 8, 16, 16$ $1, 2, 2, 4, 8, \dots, 8$ $1, 2, 3, 3, 8, 8, 12, 12, 12, 12$ $1, 6, \dots, 6$ $1, 1, 2, 2, 4, \dots, 4, 8, 8, 8, 8, 8$
73	(512, 60359) (512, 60371) (384, 18072) (1728, 46270) (1152, 6750) (1152, 5806) (864, 2695) (864, 4668) (648, 294) (576, 4322) (576, 4328) (576, 5412)	[0; 2, 4, 6] [0; 2, 4, 8] [0; 2, 4, 12] [0; 2, 6, 9]	$1, 2, 2, 2, 2, 4, 4, 4, 4, 8, 8, 8, 8$ $1, 2, 2, 2, 2, 3, 3, 3, 3, 4, 4, 6, \dots, 6$ $2, 3, 4, 4, 4, 8, 8, 12, 12, 16$ $1, 4, 4, 8, 8, 8, 8, 16, 16$ $1, 2, 2, 4, 8, 8, 8, 16, 16$ $1, 2, 2, 4, 8, \dots, 8$ $1, 2, 3, 3, 8, 8, 12, 12, 12, 12$ $1, 6, \dots, 6$ 12 $1, 2, 2, 4, \dots, 4, 8, 8, 8, 8$ same as above $1, 2, 2, 2, 2, 4, \dots, 4, 8, 8, 8, 8$
73	(512, 60359) (512, 60371) (384, 18072) (1728, 46270) (1152, 6750) (1152, 5806) (864, 2695) (864, 4668) (648, 294) (576, 4322) (576, 4328)	[0; 2, 4, 6] [0; 2, 4, 8] [0; 2, 4, 12] [0; 2, 6, 9]	$1, 2, 2, 2, 2, 4, 4, 4, 4, 8, 8, 8, 8$ $1, 2, 2, 2, 2, 3, 3, 3, 3, 4, 4, 6, \dots, 6$ $2, 3, 4, 4, 4, 8, 8, 12, 12, 16$ $1, 4, 4, 8, 8, 8, 16, 16$ $1, 2, 2, 4, 8, 8, 8, 16, 16$ $1, 2, 2, 4, 8, \dots, 8$ $1, 2, 3, 3, 8, 8, 12, 12, 12, 12$ $1, 6, \dots, 6$ $12, 2, 4, \dots, 4, 8, 8, 8$ same as above $1, 2, 2, 2, 2, 4, \dots, 4, 8, 8, 8$ $1, 2, 3, 3, 3, 3, 4, 4, 4, 4, 6, 6, 6, 6, 6, 12$
73	(512, 60359) (512, 60371) (384, 18072) (1728, 46270) (1152, 6750) (1152, 5806) (864, 2695) (864, 4668) (648, 294) (576, 4322) (576, 4328) (576, 5412) (576, 8458)	[0; 2, 4, 6] [0; 2, 4, 8] [0; 2, 4, 12] [0; 2, 6, 9] [0; 2, 2, 2, 4]	$1, 2, 2, 2, 2, 4, 4, 4, 4, 8, 8, 8, 8$ $1, 2, 2, 2, 2, 3, 3, 3, 3, 4, 4, 6, \dots, 6$ $2, 3, 4, 4, 4, 8, 8, 12, 12, 16$ $1, 4, 4, 8, 8, 8, 8, 16, 16$ $1, 2, 2, 4, 8, \dots, 8$ $1, 2, 3, 3, 8, 8, 12, 12, 12, 12$ $1, 6, \dots, 6$ 12 $1, 2, 2, 4, \dots, 4, 8, 8, 8, 8$ $1, 2, 2, 2, 2, 4, \dots, 4, 8, 8, 8$ $1, 2, 3, 3, 3, 3, 4, 4, 4, 4, 6, 6, 6, 6, 6, 12$ $1, 2, 2, 2, 2, 4, \dots, 4$
73	(512, 60359) (512, 60371) (384, 18072) (1728, 46270) (1152, 6750) (1152, 5806) (864, 2695) (864, 4668) (648, 294) (576, 4322) (576, 4328) (576, 5412) (576, 8458) (432, 682)	[0; 2, 4, 6] [0; 2, 4, 8] [0; 2, 4, 12] [0; 2, 6, 9] [0; 2, 2, 2, 4]	$1, 2, 2, 2, 2, 4, 4, 4, 4, 8, 8, 8, 8$ $1, 2, 2, 2, 2, 3, 3, 3, 3, 4, 4, 6, \dots, 6$ $2, 3, 4, 4, 4, 8, 8, 12, 12, 16$ $1, 4, 4, 8, 8, 8, 8, 16, 16$ $1, 2, 2, 4, 8, \dots, 8$ $1, 2, 3, 3, 8, 8, 12, 12, 12, 12$ $1, 6, \dots, 6$ $12, 2, 4, \dots, 4, 8, 8, 8, 8$ same as above $1, 2, 2, 2, 4, \dots, 4, 8, 8, 8, 8$ $1, 2, 3, 3, 3, 3, 4, 4, 4, 4, 6, 6, 6, 6, 6, 12$ $1, 2, 2, 2, 2, 4, \dots, 4$ $1, 2, 2, 2, 2, 4, \dots, 4$
73	(512, 60359) (512, 60371) (384, 18072) (1728, 46270) (1152, 6750) (1152, 5806) (864, 2695) (864, 4668) (648, 294) (576, 4322) (576, 4328) (576, 5412) (576, 8458)	[0; 2, 4, 6] [0; 2, 4, 8] [0; 2, 4, 12] [0; 2, 6, 9] [0; 2, 2, 2, 4]	$1, 2, 2, 2, 2, 4, 4, 4, 4, 8, 8, 8, 8$ $1, 2, 2, 2, 2, 3, 3, 3, 3, 4, 4, 6, \dots, 6$ $2, 3, 4, 4, 4, 8, 8, 12, 12, 16$ $1, 4, 4, 8, 8, 8, 8, 16, 16$ $1, 2, 2, 4, 8, \dots, 8$ $1, 2, 3, 3, 8, 8, 12, 12, 12, 12$ $1, 6, \dots, 6$ 12 $1, 2, 2, 4, \dots, 4, 8, 8, 8, 8$ $1, 2, 2, 2, 2, 4, \dots, 4, 8, 8, 8$ $1, 2, 3, 3, 3, 3, 4, 4, 4, 4, 6, 6, 6, 6, 6, 12$ $1, 2, 2, 2, 2, 4, \dots, 4$
73	(512, 60359) (512, 60371) (384, 18072) (1728, 46270) (1152, 6750) (1152, 5806) (864, 2695) (864, 4668) (648, 294) (576, 4322) (576, 4328) (576, 5412) (576, 8458) (432, 682) (432, 746)	[0; 2, 4, 6] $[0; 2, 4, 8]$ $[0; 2, 4, 12]$ $[0; 2, 6, 9]$ $[0; 2, 2, 2, 4]$ $[0; 2, 2, 2, 6]$	$1, 2, 2, 2, 2, 4, 4, 4, 4, 8, 8, 8, 8$ $1, 2, 2, 2, 2, 3, 3, 3, 3, 4, 4, 6, \dots, 6$ $2, 3, 4, 4, 4, 8, 8, 12, 12, 16$ $1, 4, 4, 8, 8, 8, 8, 16, 16$ $1, 2, 2, 4, 8, \dots, 8$ $1, 2, 3, 3, 8, 8, 12, 12, 12, 12$ $1, 6, \dots, 6$ $12, 2, 4, \dots, 4, 8, 8, 8, 8$ same as above $1, 2, 2, 2, 4, \dots, 4, 8, 8, 8, 8$ $1, 2, 3, 3, 3, 3, 4, 4, 4, 4, 6, 6, 6, 6, 6, 12$ $1, 2, 2, 2, 2, 4, \dots, 4$ $1, 2, 2, 2, 2, 4, \dots, 4$
73	(512, 60359) (512, 60371) (384, 18072) (1728, 46270) (1152, 6750) (1152, 5806) (864, 2695) (864, 4668) (648, 294) (576, 4322) (576, 4328) (576, 5412) (576, 8458) (432, 682)	[0; 2, 4, 6] [0; 2, 4, 8] [0; 2, 4, 12] [0; 2, 6, 9] [0; 2, 2, 2, 4]	$1, 2, 2, 2, 2, 4, 4, 4, 4, 8, 8, 8, 8$ $1, 2, 2, 2, 2, 3, 3, 3, 3, 4, 4, 6, \dots, 6$ $2, 3, 4, 4, 4, 8, 8, 12, 12, 16$ $1, 4, 4, 8, 8, 8, 8, 16, 16$ $1, 2, 2, 4, 8, \dots, 8$ $1, 2, 3, 3, 8, 8, 12, 12, 12, 12$ $1, 6, \dots, 6$ $12, 2, 4, \dots, 4, 8, 8, 8, 8$ same as above $1, 2, 2, 2, 4, \dots, 4, 8, 8, 8, 8$ $1, 2, 3, 3, 3, 3, 4, 4, 4, 4, 6, 6, 6, 6, 6, 12$ $1, 2, 2, 2, 2, 4, \dots, 4$ $1, 2, 3, 3, 3, 4, 4, 4, 4, 6, 6, 6, 6, 6, 12$ $1, 2, 3, 3, 4, 4, 4, 4, 6, 6, 6, 6, 6, 6, 12$ $1, 2, 3, 3, 4, 4, 4, 4, 6, \dots, 6$
	(512, 60359) (512, 60371) (384, 18072) (1728, 46270) (1152, 6750) (1152, 5806) (864, 2695) (864, 4668) (648, 294) (576, 4322) (576, 4328) (576, 5412) (576, 8458) (432, 682) (432, 746)	[0; 2, 4, 6] $[0; 2, 4, 8]$ $[0; 2, 4, 12]$ $[0; 2, 6, 9]$ $[0; 2, 2, 2, 4]$ $[0; 2, 2, 2, 6]$	$1, 2, 2, 2, 2, 4, 4, 4, 4, 8, 8, 8, 8$ $1, 2, 2, 2, 2, 3, 3, 3, 3, 4, 4, 6, \dots, 6$ $2, 3, 4, 4, 4, 8, 8, 12, 12, 16$ $1, 4, 4, 8, 8, 8, 8, 16, 16$ $1, 2, 2, 4, 8, \dots, 8$ $1, 2, 3, 3, 8, 8, 12, 12, 12, 12$ $1, 6, \dots, 6$ $12, 2, 4, \dots, 4, 8, 8, 8, 8$ same as above $1, 2, 2, 2, 2, 4, \dots, 4, 8, 8, 8$ $1, 2, 3, 3, 3, 3, 4, 4, 4, 4, 6, 6, 6, 6, 6, 12$ $1, 2, 2, 2, 2, 4, \dots, 4$ $1, 2, 3, 3, 3, 4, 4, 4, 4, 6, \dots, 6$ $9, \dots, 9$
	(512, 60359) (512, 60371) (384, 18072) (1728, 46270) (1152, 6750) (1152, 5806) (864, 2695) (864, 4668) (648, 294) (576, 4322) (576, 4328) (576, 5412) (576, 8458) (432, 682) (432, 746)	[0; 2, 4, 6] [0; 2, 4, 8] [0; 2, 4, 12] [0; 2, 6, 9] [0; 2, 2, 2, 4] [0; 2, 2, 2, 6]	$1, 2, 2, 2, 2, 4, 4, 4, 4, 8, 8, 8, 8$ $1, 2, 2, 2, 2, 3, 3, 3, 3, 4, 4, 6, \dots, 6$ $2, 3, 4, 4, 4, 8, 8, 12, 12, 16$ $1, 4, 4, 8, 8, 8, 8, 16, 16$ $1, 2, 2, 4, 8, \dots, 8$ $1, 2, 3, 3, 8, 8, 12, 12, 12, 12$ $1, 6, \dots, 6$ 12 $1, 2, 2, 4, \dots, 4, 8, 8, 8, 8$ $1, 2, 2, 2, 2, 4, \dots, 4, 8, 8, 8$ $1, 2, 3, 3, 3, 3, 4, 4, 4, 4, 6, 6, 6, 6, 6, 12$ $1, 2, 2, 2, 2, 4, \dots, 4$ $1, 2, 3, 3, 3, 3, 4, 4, 4, 4, 6, 6, 6, 6, 6, 6, 12$ $1, 2, 3, 3, 4, 4, 4, 4, 6, \dots, 6$ $9, \dots, 9$ 9
81	(512, 60359) (512, 60371) (384, 18072) (1728, 46270) (1152, 6750) (1152, 5806) (864, 2695) (864, 4668) (648, 294) (576, 4322) (576, 4328) (576, 5412) (576, 8458) (432, 682) (432, 746) (1152, 157853)	[0; 2, 4, 6] [0; 2, 4, 8] [0; 2, 4, 12] [0; 2, 6, 9] [0; 2, 2, 2, 4] [0; 2, 2, 2, 6] [0; 2, 2, 3, 8]	$1, 2, 2, 2, 2, 4, 4, 4, 4, 8, 8, 8, 8$ $1, 2, 2, 2, 2, 3, 3, 3, 3, 4, 4, 6, \dots, 6$ $2, 3, 4, 4, 4, 8, 8, 12, 12, 16$ $1, 4, 4, 8, 8, 8, 8, 16, 16$ $1, 2, 2, 4, 8, \dots, 8$ $1, 2, 3, 3, 8, 8, 12, 12, 12, 12$ $1, 6, \dots, 6$ $12, 2, 4, \dots, 4, 8, 8, 8, 8$ same as above $1, 2, 2, 2, 2, 4, \dots, 4, 8, 8, 8$ $1, 2, 3, 3, 3, 3, 4, 4, 4, 4, 6, 6, 6, 6, 6, 12$ $1, 2, 2, 2, 2, 4, \dots, 4$ $1, 2, 3, 3, 3, 4, 4, 4, 4, 6, \dots, 6$ $9, \dots, 9$
81	(512, 60359) (512, 60371) (384, 18072) (1728, 46270) (1152, 6750) (1152, 5806) (864, 2695) (864, 4668) (648, 294) (576, 4322) (576, 4328) (576, 5412) (576, 8458) (432, 682) (432, 746) (1152, 157853)	[0; 2, 4, 6] [0; 2, 4, 8] [0; 2, 4, 12] [0; 2, 6, 9] [0; 2, 2, 2, 4] [0; 2, 2, 2, 6] [0; 2, 2, 3, 8] [0; 2, 3, 8] [0; 2, 4, 6]	$1, 2, 2, 2, 2, 4, 4, 4, 4, 8, 8, 8, 8$ $1, 2, 2, 2, 2, 3, 3, 3, 3, 4, 4, 6, \dots, 6$ $2, 3, 4, 4, 4, 8, 8, 12, 12, 16$ $1, 4, 4, 8, 8, 8, 8, 16, 16$ $1, 2, 2, 4, 8, \dots, 8$ $1, 2, 3, 3, 8, 8, 12, 12, 12, 12$ $1, 6, \dots, 6$ $12, 2, 4, \dots, 4, 8, 8, 8, 8$ $1, 2, 2, 2, 2, 4, \dots, 4, 8, 8, 8$ $1, 2, 2, 2, 2, 4, \dots, 4, 8, 8, 8$ $1, 2, 3, 3, 3, 3, 4, 4, 4, 4, 6, 6, 6, 6, 6, 6, 12$ $1, 2, 2, 2, 2, 4, \dots, 4$ $1, 2, 3, 3, 3, 3, 4, 4, 4, 4, 6, 6, 6, 6, 6, 6, 12$ $1, 2, 3, 3, 4, 4, 4, 4, 6, \dots, 6$ $9, \dots, 9$ 9 $2, 8, 8, 16, 24, 24$ $2, 4, 4, 12, 12, 12, 12, 12, 24$
81	(512, 60359) (512, 60371) (384, 18072) (1728, 46270) (1152, 6750) (1152, 5806) (864, 2695) (864, 4668) (648, 294) (576, 4322) (576, 4328) (576, 5412) (576, 8458) (432, 682) (432, 746) (1152, 157853) 38882 (1944, 2319) (1296, 3522)	[0; 2, 4, 6] $[0; 2, 4, 8]$ $[0; 2, 4, 12]$ $[0; 2, 6, 9]$ $[0; 2, 2, 2, 4]$ $[0; 2, 2, 2, 6]$ $[0; 2, 4, 9]$ $[0; 2, 4, 6]$ $[0; 2, 4, 8]$	$1, 2, 2, 2, 2, 4, 4, 4, 4, 8, 8, 8, 8$ $1, 2, 2, 2, 2, 3, 3, 3, 3, 4, 4, 6, \dots, 6$ $2, 3, 4, 4, 4, 8, 8, 12, 12, 16$ $1, 4, 4, 8, 8, 8, 8, 16, 16$ $1, 2, 2, 4, 8, \dots, 8$ $1, 2, 3, 3, 8, 8, 12, 12, 12, 12$ $1, 6, \dots, 6$ 12 $1, 2, 2, 4, \dots, 4, 8, 8, 8, 8$ $1, 2, 2, 2, 4, \dots, 4, 8, 8, 8$ $1, 2, 3, 3, 3, 3, 4, 4, 4, 4, 6, 6, 6, 6, 6, 12$ $1, 2, 2, 2, 2, 4, \dots, 4$ $1, 2, 3, 3, 3, 3, 4, 4, 4, 4, 6, 6, 6, 6, 6, 6, 12$ $1, 2, 3, 3, 4, 4, 4, 4, 6, \dots, 6$ $9, \dots, 9$ 9 $2, 8, 8, 16, 24, 24$ $2, 4, 4, 12, 12, 12, 12, 24$ $2, 8, 8, 8, 8, 16, 16, 16$
81	(512, 60359) (512, 60371) (384, 18072) (1728, 46270) (1152, 6750) (1152, 5806) (864, 2695) (864, 4668) (648, 294) (576, 4322) (576, 4328) (576, 5412) (576, 8458) (432, 682) (432, 746) (1152, 157853)	[0; 2, 4, 6] $[0; 2, 4, 8]$ $[0; 2, 4, 12]$ $[0; 2, 6, 9]$ $[0; 2, 2, 2, 4]$ $[0; 2, 2, 2, 6]$ $[0; 2, 2, 2, 6]$ $[0; 2, 4, 9]$ $[0; 2, 4, 8]$ $[0; 2, 4, 8]$ $[0; 2, 6, 6]$	$1, 2, 2, 2, 2, 4, 4, 4, 4, 8, 8, 8, 8$ $1, 2, 2, 2, 2, 3, 3, 3, 3, 4, 4, 6, \dots, 6$ $2, 3, 4, 4, 4, 8, 8, 12, 12, 16$ $1, 4, 4, 8, 8, 8, 8, 16, 16$ $1, 2, 2, 4, 8, 8, 8, 8, 16, 16$ $1, 2, 2, 4, 8, \dots, 8$ $1, 2, 3, 3, 8, 8, 12, 12, 12, 12$ $1, 6, \dots, 6$ 12 $1, 2, 2, 4, \dots, 4, 8, 8, 8, 8$ same as above $1, 2, 2, 2, 2, 4, \dots, 4, 8, 8, 8, 8$ $1, 2, 3, 3, 3, 3, 4, 4, 4, 4, 6, 6, 6, 6, 6, 12$ $1, 2, 2, 2, 2, 4, \dots, 4$ $1, 2, 3, 3, 4, 4, 4, 4, 6, \dots, 6$ $9, \dots, 9$ 9 $2, 8, 8, 16, 24, 24$ $2, 4, 4, 12, 12, 12, 12, 12, 24$ $2, 8, 8, 8, 8, 16, 16, 16$ $1, 1, 2, 2, 4, 6, 6, 12, 12, 12, 12, 12$
81	(512, 60359) (512, 60371) (384, 18072) (1728, 46270) (1152, 6750) (1152, 5806) (864, 2695) (864, 2695) (864, 4668) (648, 294) (576, 4322) (576, 4328) (576, 5412) (576, 8458) (432, 682) (432, 746) (1152, 157853) 38882 (1944, 2319) (1296, 3522) (972, 427)	[0; 2, 4, 6] $[0; 2, 4, 8]$ $[0; 2, 4, 12]$ $[0; 2, 6, 9]$ $[0; 2, 2, 2, 4]$ $[0; 2, 2, 2, 6]$ $[0; 2, 4, 9]$ $[0; 2, 4, 6]$ $[0; 2, 4, 8]$	$1, 2, 2, 2, 2, 4, 4, 4, 4, 8, 8, 8, 8, 8$ $1, 2, 2, 2, 2, 3, 3, 3, 3, 4, 4, 6, \dots, 6$ $2, 3, 4, 4, 4, 8, 8, 12, 12, 16$ $1, 4, 4, 8, 8, 8, 8, 16, 16$ $1, 2, 2, 4, 8, \dots, 8$ $1, 2, 3, 3, 8, 8, 12, 12, 12, 12$ $1, 6, \dots, 6$ 12 $1, 2, 2, 4, \dots, 4, 8, 8, 8, 8$ $1, 2, 3, 3, 3, 3, 4, 4, 4, 4, 6, 6, 6, 6, 6, 12$ $1, 2, 2, 2, 2, 4, \dots, 4$ $1, 2, 3, 3, 3, 3, 4, 4, 4, 4, 6, 6, 6, 6, 6, 6, 12$ $1, 2, 2, 2, 2, 4, \dots, 4$ $1, 2, 3, 3, 3, 3, 4, 4, 4, 4, 6, \dots, 6$ $9, \dots, 9$ 9 $2, 8, 8, 16, 24, 24$ $2, 4, 4, 12, 12, 12, 12, 24$ $2, 8, 8, 8, 8, 16, 16, 16$ $1, 1, 2, 2, 4, 6, 6, 12, 12, 12, 12$ $2, 2, 2, 4, 6, \dots, 6, 12, 12, 12$
81	(512, 60359) (512, 60371) (384, 18072) (1728, 46270) (1152, 6750) (1152, 5806) (864, 2695) (864, 4668) (648, 294) (576, 4322) (576, 4328) (576, 5412) (576, 8458) (432, 682) (432, 746) (1152, 157853) 38882 (1944, 2319) (1296, 3522) (972, 427) (972, 474)	[0; 2, 4, 6] $[0; 2, 4, 8]$ $[0; 2, 4, 12]$ $[0; 2, 6, 9]$ $[0; 2, 2, 2, 4]$ $[0; 2, 2, 2, 6]$ $[0; 2, 4, 9]$ $[0; 2, 3, 8]$ $[0; 2, 4, 6]$ $[0; 2, 4, 8]$ $[0; 2, 6, 6]$ $[0; 2, 2, 2, 3]$	$1, 2, 2, 2, 2, 4, 4, 4, 4, 8, 8, 8, 8$ $1, 2, 2, 2, 2, 3, 3, 3, 3, 4, 4, 6, \dots, 6$ $2, 3, 4, 4, 4, 8, 8, 12, 12, 16$ $1, 4, 4, 8, 8, 8, 8, 16, 16$ $1, 2, 2, 4, 8, \dots, 8$ $1, 2, 3, 3, 8, 8, 12, 12, 12, 12$ $1, 6, \dots, 6$ $12, 2, 4, \dots, 4, 8, 8, 8, 8$ $1, 2, 2, 2, 2, 4, \dots, 4, 8, 8, 8$ same as above $1, 2, 2, 2, 2, 4, \dots, 4, 8, 8, 8, 8$ $1, 2, 3, 3, 3, 3, 4, 4, 4, 4, 6, 6, 6, 6, 6, 12$ $1, 2, 2, 2, 2, 4, \dots, 4$ $1, 2, 3, 3, 4, 4, 4, 4, 6, \dots, 6$ $9, \dots, 9$ 9 $2, 8, 8, 16, 24, 24$ $2, 4, 4, 12, 12, 12, 12, 12, 24$ $2, 8, 8, 8, 8, 16, 16, 16$ $1, 1, 2, 2, 4, 6, \dots, 6, 12, 12, 12, 12, 12$ $2, 2, 2, 4, 6, \dots, 6, 12, 12, 12, 12$
81	(512, 60359) (512, 60371) (384, 18072) (1728, 46270) (1152, 6750) (1152, 5806) (864, 2695) (864, 2695) (864, 4668) (648, 294) (576, 4322) (576, 4328) (576, 5412) (576, 8458) (432, 682) (432, 746) (1152, 157853) 38882 (1944, 2319) (1296, 3522) (972, 427)	[0; 2, 4, 6] $[0; 2, 4, 8]$ $[0; 2, 4, 12]$ $[0; 2, 6, 9]$ $[0; 2, 2, 2, 4]$ $[0; 2, 2, 2, 6]$ $[0; 2, 2, 2, 6]$ $[0; 2, 4, 9]$ $[0; 2, 4, 8]$ $[0; 2, 4, 8]$ $[0; 2, 6, 6]$	$1, 2, 2, 2, 2, 4, 4, 4, 4, 8, 8, 8, 8, 8$ $1, 2, 2, 2, 2, 3, 3, 3, 3, 4, 4, 6, \dots, 6$ $2, 3, 4, 4, 4, 8, 8, 12, 12, 16$ $1, 4, 4, 8, 8, 8, 8, 16, 16$ $1, 2, 2, 4, 8, \dots, 8$ $1, 2, 3, 3, 8, 8, 12, 12, 12, 12$ $1, 6, \dots, 6$ 12 $1, 2, 2, 4, \dots, 4, 8, 8, 8, 8$ $1, 2, 3, 3, 3, 3, 4, 4, 4, 4, 6, 6, 6, 6, 6, 12$ $1, 2, 2, 2, 2, 4, \dots, 4$ $1, 2, 3, 3, 3, 3, 4, 4, 4, 4, 6, 6, 6, 6, 6, 6, 12$ $1, 2, 2, 2, 2, 4, \dots, 4$ $1, 2, 3, 3, 3, 3, 4, 4, 4, 4, 6, \dots, 6$ $9, \dots, 9$ 9 $2, 8, 8, 16, 24, 24$ $2, 4, 4, 12, 12, 12, 12, 24$ $2, 8, 8, 8, 8, 16, 16, 16$ $1, 1, 2, 2, 4, 6, 6, 12, 12, 12, 12$ $2, 2, 2, 4, 6, \dots, 6, 12, 12, 12$
81	(512, 60359) (512, 60371) (384, 18072) (1728, 46270) (1152, 6750) (1152, 5806) (864, 2695) (864, 4668) (648, 294) (576, 4322) (576, 4328) (576, 5412) (576, 8458) (432, 682) (432, 746) (1152, 157853) 38882 (1944, 2319) (1296, 3522) (972, 427) (972, 474)	$[0; 2, 4, 6] \\ [0; 2, 4, 8] \\ [0; 2, 4, 12] \\ [0; 2, 6, 9] \\ [0; 2, 2, 2, 4] \\ \\ [0; 2, 2, 2, 4] \\ \\ [0; 2, 2, 2, 6] \\ \\ [0; 2, 2, 4, 6] \\ [0; 2, 2, 4, 8] \\ [0; 2, 2, 6, 6] \\ [0; 2, 2, 2, 3] \\ [0; 2, 2, 2, 4] \\ \\ [0; 2, 2, 2, 4]$	$1, 2, 2, 2, 2, 4, 4, 4, 4, 8, 8, 8, 8, 8$ $1, 2, 2, 2, 2, 3, 3, 3, 3, 4, 4, 6, \dots, 6$ $2, 3, 4, 4, 4, 8, 8, 12, 12, 16$ $1, 4, 4, 8, 8, 8, 8, 16, 16$ $1, 2, 2, 4, 8, \dots, 8$ $1, 2, 3, 3, 8, 8, 12, 12, 12, 12$ $1, 6, \dots, 6$ $12, 2, 2, 4, \dots, 4, 8, 8, 8, 8$ $1, 2, 2, 2, 2, 4, \dots, 4, 8, 8, 8$ $1, 2, 3, 3, 3, 3, 4, 4, 4, 4, 6, 6, 6, 6, 6, 12$ $1, 2, 2, 2, 2, 4, \dots, 4$ $1, 2, 3, 3, 4, 4, 4, 4, 6, \dots, 6$ $1, 2, 3, 3, 4, 4, 4, 4, 6, \dots, 6$ $1, 2, 3, 3, 4, 4, 4, 4, 6, \dots, 6$ $1, 2, 3, 3, 4, 4, 4, 4, 6, \dots, 6$ $1, 2, 3, 3, 4, 4, 4, 4, 6, \dots, 6$ $1, 2, 2, 2, 2, 4, \dots, 4$ $1, 2, 3, 3, 4, 4, 4, 4, 6, \dots, 6$ $1, 2, 2, 2, 2, 4, \dots, 4$ $2, 4, 4, 12, 12, 12, 12, 12, 12$ $2, 4, \dots, 4, 8, \dots, 8$ 6
81	(512, 60359) (512, 60371) (384, 18072) (1728, 46270) (1152, 6750) (1152, 5806) (864, 2695) (864, 2695) (864, 4668) (648, 294) (576, 4322) (576, 4328) (576, 5412) (576, 8458) (432, 682) (432, 746) (1152, 157853) 38882 (1944, 2319) (1296, 3522) (972, 427) (972, 474) (648, 725)		$1, 2, 2, 2, 2, 4, 4, 4, 4, 8, 8, 8, 8, 8$ $1, 2, 2, 2, 2, 3, 3, 3, 3, 4, 4, 6, \dots, 6$ $2, 3, 4, 4, 4, 8, 8, 12, 12, 16$ $1, 4, 4, 8, 8, 8, 8, 16, 16$ $1, 2, 2, 4, 8, \dots, 8$ $1, 2, 3, 3, 8, 8, 12, 12, 12, 12$ $1, 6, \dots, 6$ 12 $1, 2, 2, 4, \dots, 4, 8, 8, 8, 8$ same as above $1, 2, 2, 2, 2, 4, \dots, 4, 8, 8, 8, 8$ $1, 2, 3, 3, 3, 3, 4, 4, 4, 4, 6, 6, 6, 6, 6, 12$ $1, 2, 2, 2, 2, 4, \dots, 4$ $1, 2, 3, 3, 3, 4, 4, 4, 4, 6, \dots, 6$ $9, \dots, 9$ 9 $2, 8, 8, 16, 24, 24$ $2, 4, 4, 12, 12, 12, 12, 12, 12, 12, 12, 12, 12$
81 82	(512, 60359) (512, 60371) (384, 18072) (1728, 46270) (1152, 6750) (1152, 5806) (864, 2695) (864, 4668) (648, 294) (576, 4322) (576, 4328) (576, 5412) (576, 8458) (432, 682) (432, 746) (1152, 157853) (1296, 3522) (972, 427) (972, 474) (648, 725)	$[0; 2, 4, 6] \\ [0; 2, 4, 8] \\ [0; 2, 4, 12] \\ [0; 2, 6, 9] \\ [0; 2, 2, 2, 4] \\ \\ [0; 2, 2, 2, 4] \\ \\ [0; 2, 2, 2, 6] \\ \\ [0; 2, 2, 4, 6] \\ [0; 2, 2, 4, 8] \\ [0; 2, 2, 6, 6] \\ [0; 2, 2, 2, 3] \\ [0; 2, 2, 2, 4] \\ \\ [0; 2, 2, 2, 4]$	$1, 2, 2, 2, 2, 4, 4, 4, 4, 8, 8, 8, 8, 8$ $1, 2, 2, 2, 2, 3, 3, 3, 3, 4, 4, 6, \dots, 6$ $2, 3, 4, 4, 4, 8, 8, 12, 12, 16$ $1, 4, 4, 8, 8, 8, 8, 16, 16$ $1, 2, 2, 4, 8, \dots, 8$ $1, 2, 3, 3, 8, 8, 12, 12, 12, 12$ $1, 6, \dots, 6$ $12, 2, 2, 4, \dots, 4, 8, 8, 8, 8$ $1, 2, 2, 2, 2, 4, \dots, 4, 8, 8, 8$ $1, 2, 3, 3, 3, 3, 4, 4, 4, 4, 6, 6, 6, 6, 6, 12$ $1, 2, 2, 2, 2, 4, \dots, 4$ $1, 2, 3, 3, 4, 4, 4, 4, 6, \dots, 6$ $1, 2, 3, 3, 4, 4, 4, 4, 6, \dots, 6$ $1, 2, 3, 3, 4, 4, 4, 4, 6, \dots, 6$ $1, 2, 3, 3, 4, 4, 4, 4, 6, \dots, 6$ $1, 2, 3, 3, 4, 4, 4, 4, 6, \dots, 6$ $1, 2, 2, 2, 2, 4, \dots, 4$ $1, 2, 3, 3, 4, 4, 4, 4, 6, \dots, 6$ $1, 2, 2, 2, 2, 4, \dots, 4$ $2, 4, 4, 12, 12, 12, 12, 12, 12$ $2, 4, \dots, 4, 8, \dots, 8$ 6

Table 1: (continued)

	At	C:	In a binar Danamanaitina
$\frac{g}{91}$	Automorphism Group (432, 686)	[0; 2, 2, 2, 12]	Jacobian Decomposition $1, 2, 2, 2, 4, \dots, 4$
91	(432, 080)	[0, 2, 2, 2, 12]	1, 2, 2, 2, 4, , 4
	2224	[0 0 0 10]	21
97	2304_{1}	[0; 2, 3, 12]	1, 2, 3, 4, 6, 6, 9, 12, 18, 18, 18
	$2304_2 \\ 3840_1$	[0; 2, 4, 5]	1, 2, 4, 6, 12, 12, 12, 24, 24
	(1152, 157665)	[0, 2, 4, 3] [0, 2, 2, 2, 3]	4, 10, 15, 20, 24, 24 2, 2, 3, 3, 3, 6, 6, 6, 6, 8, 8, 8, 8, 12, 16
109	(1296, 2945)	[0; 2, 6, 6]	$1, 1, 2, 2, 3, 4, 6, \dots, 6, 12, 12, 12, 12, 12$
	(,,	[-/ /-/-]	
	2502	[0, 0, 4, 6]	6 2 10 10 10 10 16 16 04
	2592_A (1296, 3498)	[0; 2, 4, 6] [0; 2, 4, 12]	2, 3, 12, 12, 12, 12, 16, 16, 24 $1, 4, 4, 4, 8, \dots, 8, 16, 16$
	(1200, 0100)	[0, 2, 1, 12]	1, 1, 1, 1, 0, 11, 0
	0500	[0 0 0 10]	8 1 2 4 0 10 10 10 10
	2592_B (1296, 2940)	[0; 2, 3, 12] [0; 2, 2, 2, 3]	1, 3, 6, 9, 18, 18, 18, 18, 18 $2, 2, 2, 3, 4, 6, \dots, 6, 12, 12, 12, 12$
	(1230, 2340)	[0, 2, 2, 2, 3]	2, 2, 2, 3, 4, 0, , 0, 12, 12, 12, 12
			8
121	2880	[0; 2, 4, 6]	3, 5, 6, 8, 12, 12, 12, 15, 15, 15, 18
129	3072_{A}	[0; 2, 4, 6]	$2, 3, 4, 6, 6, \underbrace{12, \dots, 12}_{2}, 24$
			7
	3072_{B}		$2, 3, 6, 6, 8, 8, 12, \ldots, 12, 24$
			6
	3072_{C}		same as above
	3072_{D}^{-}		2, 3, 6, 6, 8, 8, 12, 12, 24, 24, 24
	3072_{E}		3, 6, 8, 12, 12, 12, 12, 16, 24, 24
	5120	[0; 2, 4, 5]	4, 5, 10, 10, 20, 20, 20, 20, 20
	6144	[0; 2, 3, 8]	2, 3, 12, 16, 24, 24, 48 2, 3, 12, 12, 12, 16, 24, 24, 24
			2, 3, 12, 12, 12, 10, 24, 24, 24
	2048	[0; 2, 4, 8]	1, 2, 2, 4, 4, 4, 8, , 8, 16, 16, 16
			1, 2, 2, 4, 4, 4, 8, 8, 8, 8, 16, 16, 16, 16, 16
			1, 2, 2, 4, 8, 8, 8, 16, , 16
			-, -, -, -, -, -, -, -, -, -, -, -, -, -
			6
			$1, 2, 2, 4, \underbrace{8, \dots, 8}_{1}, 16, 16, 16, 16$
			7
	3072_{F}	[0; 2, 3, 12]	$1, 2, 6, \underbrace{12, \ldots, 7}_{7}, 12, 24, 24$
			6
	3072_{G}		1, 2, 6, 12, 12, 24, 24, 24, 24
	3072_{H}		same as above
	10752	[0; 2, 3, 7]	3, 14, 14, 42, 56
	1536	[0; 2, 2, 2, 3]	$2, 3, 3, 3, 6, 6, 6, 6, 6, 8, 8, 12, \dots, 12$
			6
145	(1728, 13293)	[0; 2, 6, 6]	$1, 1, 2, 3, 6, \dots, 6, 12, \dots, 12$
			7 8
	(1728, 13285)		same as above
	(1728, 32233)		$1, 1, 2, 2, 3, 4, 6, 6, 6, 6, 12, \dots, 12$
			$\underset{\circ}{\longrightarrow}$
	3456	[0; 2, 4, 6]	2, 3, 4, 4, 6, 6, 12, 12, 12, 12, 24, 24, 24
	6912	[0; 2, 3, 8]	2, 3, 8, 12, 24, 24, 24, 48
	(1728, 46256)	[0; 2, 4, 12]	$1, 2, 2, 3, 3, 6, 8, 8, 8, 8, 12, \dots, 12$
			8
	2304	[0; 2, 4, 8]	$1, 2, 2, 4, 8, 8, 8, 8, 8, 16, \dots, 16$
			6
	(1728, 46119)	[0; 2, 2, 2, 3]	$2, 2, 3, 3, 3, \underbrace{6, \dots, 6}, \underbrace{12, \dots, 12}$
	(1728, 47900)		$2, 2, 2, 3, 3, 3, 4, 6, \dots, 6, 12, \dots, 12$
	(1120, 41300)		2, 2, 2, 0, 0, 0, 4, 0, , 0, 12, , 12
	2500	[0.0.4.0]	7 7
163	2592_A	[0; 2, 4, 8]	$1, 2, 8, \dots, 8, 16, \dots, 16$
			8 6
	2592_B		$1, 2, 8, 8, 8, 8, 16, \dots, 16$
193	5760	[0; 2, 3, 10]	5, 8, 15, 15, 15, 15, 30, 30, 30, 30
	2304	[0; 2, 2, 2, 3]	$2, 2, 3, 3, 3, 6, 6, 6, 6, 8, \dots, 8, 12, 16, 16, 16$
			<u> </u>
244	11664	[0; 2, 3, 8]	$\begin{array}{c} 12 \\ 2, 8, 8, 16, 24, 24, 36, 36, 36, 54 \end{array}$
257	12288 _A	[0; 2, 3, 8]	2, 3, 12, 24, , 24, 48, 48
	21		
	12288_{B}		$\begin{smallmatrix} 6 \\ 2, 3, 12, 16, 16, 24, 24, 32, 32, 48, 48 \end{smallmatrix}$
	12200B		2, 0, 12, 10, 10, 24, 24, 02, 02, 40, 40

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Table 1: (continued)

g	Automorphism Group	Signature	Jacobian Decomposition
	3072	[0; 2, 6, 6]	$1, 1, 3, 6, \ldots, 6, 12, \ldots, 12$
			6 18
325	15552	[0; 2, 3, 8]	$2, 3, 8, 8, 16, \underbrace{24, \dots, 24}_{4}, 48, 48, 48$
	3888	[0; 2, 6, 6]	$1, 1, 2, 2, 3, 4, \underbrace{6, \dots, 6}_{1}, \underbrace{12, \dots, 12}_{1}$
433	5184	[0; 2, 6, 6]	$\underbrace{1, 1, 2, 2, 3, 4, \underbrace{6, \dots, 6}_{8}, \underbrace{12, \dots, 12}_{31}}_{1}$

Table 2: Completely decomposable Jacobian varieties using the intermediate cover technique.

	iiiq	lue.			
		Automorphism		Subgroup	Jacobian
g	Large g	Group	Signature	No., Order	Decomposition
12	49	(288, 627)	[0; 2, 2, 2, 6]	28, 4	$1, \dots, 1, 2, 2, 2$
					6
				29, 4	1, 1, 1, 1, 2, 2, 2, 2
14	145	(1728, 46119)	[0; 2, 2, 2, 3]	168, 8	$1, \ldots, 1, 3$
18	73	(1152, 5806)	[0; 2, 4, 8]	32, 4	11 2, 2, 2, 4, 4, 4
10		(1102,0000)	[0, 2, 1, 0]	35, 4	1, 1, 2, 2, 2, 4, 4
				38, 4	1, 1, 2, 2, 4, 4, 4
	145	(1728, 46119)	[0; 2, 2, 2, 3]	152, 8	$1, \ldots, 1, 2, 2, 3$
					11
20	82	38882	[0; 2, 3, 8]	13, 4	2, 2, 4, 6, 6
21	129	1536	[0; 2, 2, 2, 3]	128, 6	$1,\ldots,1,2,\ldots,2$
					<u></u>
22	193	2304	[0; 2, 2, 2, 3]	132, 8	$\frac{7}{1, \dots, 1, 2, \dots, 2, 3}$
	130	2004	[0, 2, 2, 2, 0]	102, 0	1,,1,2,,2,0
					7 6
23	49	(256, 3066)	[0; 2, 2, 2, 8]	9, 2	$1, 1, 1, 2, \dots, 2$
					10
24	49	(288, 627)	[0; 2, 2, 2, 6]	8, 2	$1,\ldots,1,2,\ldots,2$
26	109	(1296, 2940)	[0; 2, 2, 2, 3]	22, 4	$\frac{8}{1,\ldots,1,2,2,2,2,2,3,3,3}$
20	100	(1200, 2040)	[0, 2, 2, 2, 0]	, -	
27	55	(429 527)	[0, 2, 2, 2, 4]	6, 2	7
21	55	(432, 537)	[0; 2, 2, 2, 4]	0, 2	$1, 2, 3, \ldots, 3$
					8
		(288, 911)	[0; 2, 2, 2, 8]	6, 2	$1, 1, 1, 2, \ldots, 2, 3, 3$
					<u> </u>
29	97	(1152, 157665)	[0; 2, 2, 2, 3]	13, 3	$1, 1, 1, 2, \dots, 2, 4, 6$
30	61	(720, 767)	[0; 2, 6, 6]	5, 2	2, 2, 3, 3, 4, 5, 5, 6
32	97	23046	[0; 2, 3, 12]	10, 3	2, 2, 4, 4, 4, 8, 8
33	193	2304	[0; 2, 2, 2, 3]	74, 6	$1, \dots, 1, 2, \dots, 2$
			[-/ / / /-]	. , .	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
34	73	(432, 682)	[0; 2, 2, 2, 6]	5, 2	$\frac{7}{1,1,2,\dots,2}$
04	10	(402, 002)	[0, 2, 2, 2, 0]	0, 2	1, 1, 2, , 2
	70	(1150 5000)	[0.0.4.0]	10.0	16
35	73 145	(1152, 5806)	[0; 2, 4, 8]	10, 2 54, 4	1, 2, 4, 4, 4, 4, 8, 8
	145	(1728, 46119)	[0; 2, 2, 2, 3]	54, 4	$1, \dots, 1, 2, 2, 2, 3, 4, 4, 4, 4$
					10
39	81	(1152, 157853)	[0; 2, 4, 9]	9, 2	$4, \ldots, 4, 5, 5, 5$
					6
40	82	(972, 474)	[0; 2, 2, 2, 3]	4, 2	$1, 1, 2, 3, \dots, 3, 6, 6, 6$
41	129	1536	[0; 2, 2, 2, 3]	15, 3	$\frac{6}{1,1,1,2,\ldots,2,4,\ldots,4}$
	120	1000	[0, 2, 2, 2, 0]	10, 0	1, 1, 1, 2,, 2, 1,, 1
	100	2050	[0.0.0.10]	11.0	7 6
42	129	3072_{F}	[0; 2, 3, 12]	11, 3	$2, \underbrace{4, \ldots, 4}_{}, 8, 8$
					6
		3072_{B}		5, 3	2, 4, 4, 8, 8, 8, 8
43	193	2304	[0; 2, 2, 2, 3]	34, 4	1, 1, 1, 1, 2, 2, 2, 3, 4, 4, 4, 4, 6, 8
44	91	(432, 686)	[0; 2, 2, 2, 12]	7, 2	$1, 1, 2, \cdots, 2$
					21
45	91	(432, 686)	[0; 2, 2, 2, 12]	8, 2	$\frac{21}{1,1,1,2,\cdots,2}$
					21
46	109	(1296, 2940)	[0; 2, 2, 2, 3]	3, 2	$1, 1, 1, 2, \cdots, 2, 3, 6, 6, 6, 6$
-		. ,/			
47	97	38401	[0; 2, 4, 5]	5, 2	8 2, 4, 7, 10, 12, 12
41	91	(1152, 157665)	[0; 2, 4, 5] [0; 2, 2, 2, 3]	10, 2	1, 1, 1, 1, 1, 3, 3, 3, 3, 4, 4, 4, 4, 6, 8
48	145	(1728, 13293)	[0; 2, 6, 6]	12, 3	$\frac{1, 1, 1, 1, 1, 0, 0, 0, 0, 4, 4, 4, 4, 9, 0}{1, 1, 2, \dots, 2, 4, \dots, 4}$
		,)	i-, ,-,~]	, -	<u> </u>
		(1728, 13285)		14, 3	7 8 same as above
51	101	(800, 980)	[0; 2, 8, 8]	5, 2	same as above $1, 2, 4, \ldots, 4$
91	101	(000, 300)	[0, 2, 0, 0]] 5, 2	-, -, -, -, -, -
		9400	[0. 2. 2. 4]		12
		2400_{1}	[0; 3, 3, 4]	3, 2	3, 12, 12, 12, 12

Table 2: (continued)

	_	Automorphism		Subgroup	Jacobian
g	Large g	Group	Signature	No., Order	Decomposition
		(800, 464)	[0;4,4,4]	6, 2	$1, 1, 1, 4, \dots, 4$
					12
52	109	2592_{A}	[0; 2, 4, 6]	7, 2	$\frac{12}{1, 1, 5, 5, 6, 6, 8, 8, 12}$
	109	(1296, 2940)	[0; 2, 2, 2, 3]	5, 2	$1, 1, 1, 2, 2, 3, \dots, 3, 6, 6, 6, 6$
					<u></u>
53	109	(1296, 2945)	[0; 2, 6, 6]	8, 2	7 $1, 1, 1, 2, 3, \dots, 3, 6, 6, 6, 6, 6$
55	103	(1230, 2343)	[0, 2, 0, 0]	0, 2	1, 1, 1, 2, 3, , 3, 0, 0, 0, 0
					6
	109	(1296, 2940)	[0; 2, 2, 2, 3]	6, 2	$1, 1, 1, 2, 3, \dots, 3, 6, 6, 6, 6$
					<u> </u>
54	109	(1296, 3498)	[0; 2, 4, 12]	6, 2	2, 2, 2, 4, , 4, 8, 8
		, ,			
	100	0204	[0 0 0 0]	15 0	8
57	193	2304	[0; 2, 2, 2, 3]	15, 3	$1, 1, 1, 2, \dots, 2, 4, 6, 6, 6$
					16
58	244	11664	[0; 2, 3, 8]	14, 4	2, 2, 4, 6, 6, 8, 8, 8, 14
62	257	12288_{B}	[0; 2, 3, 8]	35, 4	2, 4, 4, 6, 6, 8, 8, 12,12
		12288_{A}		46, 4	$2, 6, \ldots, 6, 12, 12$
					6
63	129	3072_{C}	[0; 2, 4, 8]	7, 2	1, 1, 1, 2, 2, 4, 4, 4, 4, 8, 8, 8, 8, 8
		3072_{D}	·- / / - /]	5, 2	1, 2, 4, 4, 4, 8, , 8
		-			<u> </u>
		2072		6.2	$1, 1, 1, 4, 4, 4, 8, \dots, 8$
		3072_D		6, 2	1, 1, 1, 4, 4, 4, 0, , 0
					6
	193	5760	[0; 2, 3, 10]	9, 3	1, 2, 5, 5, 5, 5, 10, 10, 10, 10
64	325	3888	[0; 2, 6, 6]	28, 4	$1, 3, \dots, 3$
					21
67	145	(1728, 32233)	[0; 2, 6, 6]	6, 2	$1, 1, 2, 3, 3, 3, 6, \dots, 6$
		(,)	[-/ /-/-]	- /	
	7.45	(1500 40110)	[0 0 0 0]	11.0	9
	145	(1728, 46119)	[0; 2, 2, 2, 3]	11, 2	$1, 1, 1, 1, 1, 2, 2, 2, 2, 2, 3, 3, 3, 3, 6, \dots, 6$
					7
69	145	(1728, 13285)	[0; 2, 6, 6]	9, 2	$1, 1, 2, 2, 3, 3, 3, 3, 3, 6, \dots, 6$
					<u> </u>
		(1728, 32233)		9, 2	$1, 1, 1, 2, 2, 2, 3, 3, 6, \dots, 6$
		()		-, -	-, -, -, -, -, -, -, -, -, -, -, -, -, -
	7.45	(1500 40110)	[0 0 0 0]	10.0	9
	145	(1728, 46119)	[0; 2, 2, 2, 3]	12, 2	$1, 1, 1, 1, 2, 3, \dots, 3, 6, \dots, 6$
					$\frac{1}{7}$ $\frac{1}{7}$
71	145	(1728, 13293)	[0; 2, 6, 6]	8, 2	$\frac{7}{1,1,3,\ldots,3,6,\ldots,6}$
					<u></u>
		(1728, 13285)		8, 2	7 8 same as above
72	325	15552	[0; 2, 3, 8]	22, 4	1, 1, 4, 5, , 5, 12, 12, 12
. –			[-,-,-,-]	, -	-, -, -, -, -,,,
	100	2502	[0.0.4.0]		6
79	163	2592_{D}	[0; 2, 4, 8]	6, 2	$1, 3, 3, 4, 4, 8, \dots, 8$
80	163	2592_{C}	[0; 2, 4, 8]	5, 2	$4, \ldots, 4, 8, \ldots, 8$
		2592_{D}		5, 2	$ \begin{array}{c} 8 & 6 \\ 4, 4, 4, 8, \dots, 8 \end{array} $
		D		", =	-, -, -, -, -, -, -, -, -, -, -, -, -, -
	100		[0 0 0 10]		8
89	193	5760	[0; 2, 3, 10]	3, 2	4, 5, 5, 5, 10, 15, 15, 15, 15
93	193	2304	[0; 2, 2, 2, 3]	11, 2	$1, 1, 1, 1, 2, 3, 3, 3, 4, \dots, 4, 6, 8, 8, 8$
					12
95	193	2304	[0; 2, 2, 2, 3]	12, 2	$\begin{array}{c} 12 \\ 1, 1, 1, 1, 1, 3, 3, 3, 3, 4, \dots, 4, 6, 8, 8, 8 \end{array}$
103	433	5184	[0; 2, 6, 6]	32, 4	$\begin{array}{c} 1\\ 1, 1, 1, 1, 2, \dots, 2, 3, 3, 3, 3, 3, 6, 6, 6, 6, 6 \end{array}$
100	400	0104	[0, 2, 0, 0]	32, 1	
				<u> </u>	$\frac{27}{1,1,1,2,\ldots,2,3,\ldots,3,6,6,6,6,6}$
105	433	5184	[0; 2, 6, 6]	35, 4	$1, 1, 1, 2, \dots, 2, 3, \dots, 3, 6, 6, 6, 6, 6$
					27 6
				49, 4	$1, \dots 1, 2, \dots, 2, 3, \underbrace{4, \dots, 4}_{6}, 6$
				''	
100	205	15500	[0 0 0 0]	14.0	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
106	325	15522	[0; 2, 3, 8]	14, 3	$1, 2, 2, 5, 8, \dots, 8, 10, 10, 10$
					6
107	433	5184	[0; 2, 6, 6]	38, 4	$1, \dots 1, 2, \dots, 2, 3, 4, \dots, 4, 6$
					<u> </u>
				I	8 19 13

Table 2: (continued)

		Automorphism		Subgroup	Jacobian
g	Large g	Group	Signature	No., Order	Decomposition
	Large 9	оточр	Dignavaro	39, 4	$1, \dots, 1, 2, \dots, 2, 3, 4, \dots, 4, 6$
				00, 1	
					10 18 13 $1, \dots, 1, 2, \dots, 2, 3, \dots, 3, 6, \dots, 6$
				50, 4	$1, \ldots 1, 2, \ldots, 2, 3, \ldots, 3, 6, \ldots, 6$
					5 27 6 5
118	244	11664	[0; 2, 3, 8]	2, 2	5 27 6 5 -4, 4, 8, 12, 12, 16, 16, 16, 30
			[-/ /-/-]	3, 2	
125	257	12288 _A	[0; 2, 3, 8]	5, 2	$\begin{array}{c} 1, 3, 3, 8, 11, 11, 18, 18, 18, 27 \\ \hline 1, 4, 12, \dots, 12, 24, 24 \end{array}$
		21			
		10000			6
		12288_{B}		6, 2	1, 4, 8, 8, 12, 12, 16, 16, 24, 24
142	433	5184	[0, 0, 0, 0]	7, 2	1, 1, 5, 8, 8, 11, 11, 16, 16, 24, 24
142	433	5184	[0; 2, 6, 6]	17, 3	1, 1, 5, 8, 8, 11, 11, 16, 16, 24, 24 1, 1, 2, , 2, 4, , 4
					$\begin{array}{c} & & & \\ & & & \\ \hline 1, 1, 3, 3, 8, 11, \dots, 11, 24, 24, 24 \end{array}$
154	325	15552	[0; 2, 3, 8]	4, 2	$1, 1, 3, 3, 8, 11, \dots, 11, 24, 24, 24$
161	325	15552	[0; 2, 3, 8]	5, 2	$\begin{matrix} & & & & & \\ & & & \\ 1,4,4,8,12,\dots,12,24,24,24 \end{matrix}$
101	323	15552	[0, 2, 3, 6]	3, 2	1, 4, 4, 0, 12, , 12, 24, 24
					6
199	433	5184	[0; 2, 6, 6]	5, 2	$1, 1, 2, 3, 3, 3, 6, \dots, 6$
211	433	5184	[0; 2, 6, 6]	7, 2	$\frac{31}{1, 1, 2, 3, \dots, 3, 6, \dots, 6}$
211	400	0104	[0, 2, 0, 0]	1, 2	1, 1, 2, 3, , 0, , 0
					$\begin{array}{cccccccccccccccccccccccccccccccccccc$
213	433	5184	[0; 2, 6, 6]	9, 2	$1, 1, 1, 2, 2, 2, 3, \dots, 3, 6, \dots, 6$
					21
217	433	5184	[0; 2, 6, 6]	2, 2	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
			[-7 7-7-1	'	
		F104			27 6
		5184		3, 2	$1, 1, 1, \underbrace{2, \dots, 2}_{1}, \underbrace{4, \dots, 4}_{1}, 6, \underbrace{8, \dots, 8}_{1}, 12$
					8 10 12
		5184		6, 2	$1, 1, 2, 3, \ldots, 3, 6, \ldots, 6$
					<u></u>
		5184		8, 2	7 32
		9104		0, 2	1, 1, 2, 2, 3, , 3, 1, 0, , 0
					7 31
		5184		10, 2	$1, 1, 1, 2, 3, \dots, 3, 4, 4, 6, \dots, 6$
					$1, 1, 2, 2, \underbrace{\frac{7}{3}, \dots, 3}_{7}, \underbrace{\frac{32}{4}, \dots, 6}_{6}$ $1, 1, 1, 2, \underbrace{\frac{7}{3}, \dots, 3}_{6}, \underbrace{\frac{31}{4}, \dots, 6}_{31}$
				1	0 31

Table 3. Generators and relations for groups from the paper with order not found in the Magma or GAP database.

12								J.	PA	¥υ	LH	US	A	ΝL	ЭΑ	. N	VI.	кc	IJΑ	S											
257 325 325 433	244 257	193	163	163	145	145	145	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129	121	109	109	9
12288_{B} 15552 3888 5184	$11664 \\ 12288_A$	2304	2592 _D	2592_C	2304	3456	6912	1536	2048_F	2048_E	2048_D	2048_C	2048_B	2048_A	3072_H	3072_G	3072_F	3072_E	3072_D	3072_C	3072_B	3072_A	5120	6144_C	6144_B	6144_A	10752	2880	2592_B	2592_A	Size
$ \langle x,y,z x^2,y^3,z^8,z^{-1}y^{-1}x,yxz^2yz^{-1}xzyz^{-1}xzyzzy^{-1}z^{-2}xy^{-1}z^{-2}xy^{-1}z^{-2}xz \rangle \\ \langle x,y,z x^2,y^3,z^8,z^{-1}y^{-1}x,zyxzyxzyxz^2xzy^{-1}z^{-1}xy^{-1}z^{-1}xz^2yxzyz^{-2}xzzyxz^2y^{-2}z^{-1}xzy^{-1}z^{-2}xz^2yz^{-2}z^{-2}yz^{-2}xz^3yz^{-1}xz^3yz^{-3}yz^{-2}xz \rangle \\ \langle x,y,z x^2,y^6,z^6,z^{-1}y^{-1}x,(xz^2y^2)^2,(yz^{-2}yz^{-1}y)^2,xzy^2z^{-1}y^2z^{-1}y^2z^{-1}yzy^{-1}z^{-1}yz^{-1}y^{-1}z^{-3}yxy^{-1}z^{-3}yxy^{-1}z^{-1}xz^2yz^{-2}yz^{-2}yz^{-1} \rangle \\ \langle x,y,z x^2,y^6,z^6,z^{-1}y^{-1}x,(xz^2y^2)^2,(yz^{-2}yz^{-1}y)^2,xy^{-1}zy^2z^{-1}yxy^{-1}z^{-1}z^{-2}z^{-1}y \rangle \\ \langle x,y,z x^2,y^6,z^6,z^{-1}y^{-1}x,(xz^2y^2)^2,(yz^{-2}yz^{-1}y)^2,xy^{-1}zy^2z^{-1}yxy^{-2}z^{-1}yxy^{-1}z^{-2}z^{-1}y \rangle \\ \\ \langle x,y,z x^2,y^6,z^6,z^{-1}y^{-1}x,(xz^2y^2)^2,(yz^{-2}yz^{-1}y)^2,xy^{-1}zy^2z^{-1}yxy^{-1}z^{-2}z^{-1}yxy^{-1}z^{-2}z^{-1}y \rangle \\ \\ \langle x,y,z x^2,y^6,z^6,z^{-1}y^{-1}x,(xz^2y^2)^2,(yz^{-2}yz^{-1}y)^2,xy^{-1}zy^2z^{-1}yxy^{-1}z^{-2}z^{-1}yxy^{-1}z^{-2}z^{-1}y \rangle \\ \\ \langle x,y,z x^2,y^6,z^6,z^{-1}y^{-1}x,(xz^2y^2)^2,(yz^{-2}yz^{-1}y)^2,xy^{-1}zy^2z^{-1}yxy^{-1}z^{-1}z^{-2}z^{-1}yxy^{-1}z^{-2}z^{-1}y \rangle \\ \\ \langle x,y,z x^2,y^6,z^6,z^{-1}y^{-1}x,(xz^2y^2)^2,(yz^{-2}yz^{-1}y^2z^{-1}y^2z^{-1}y^2z^{-1}y^2z^{-1}y^2z^{-1}y^2z^{-1}y^2z^{-1}z^{-2}z^{-1}y^2z^{-1}z^{-2}z^{-1}y^2z^{-1}z^{-2}z^{-1}z^{-2}z^{-1}z^{-2}z^{-$	$\langle x,y,z x^2,y^3,z^8,z^{-1}y^{-1}x,zyxzyxzyxy^{-1}z^{-1}xy^{-1}z^{-1}xy^{-1}z^{-1}xy^{-1}z^{-1}xy^{-1}z^{-1}xy^{-1}z^{-1}xy^{-1}z^{-1}xy^{-1}z^{-1}xy^{-1}z^{-1}xy^{-1}z^{-1}xy^{-1}z^{-1}xy^{-1}z^{-1}xy^{-1}z^{-1}xy^{-1}z^{-1}xy^{-1}z^{-1}xy^{-1}z^{-1}xz^2yxz^2yxz^2yxz^2yxy^{-1}xy^{-1}z^{-1}xz^2y^{-1}z^{-1}xy^{-1}z^$	$ (x,y,z)u \ , y \ , z \ , z \ y \ x, xzyz \ xzy \ z \ xzyz \ xzzyw^{-1}z^2, y^2, z^2, w^3, zyxw^{-1}, (zz)^6, ywxzxzyw^{-1}xw, (yw^{-1})^6, (xwyw^{-1}yw^{-1})^2, xyxyxzxyw^{-1}zxyxywy) $	$\langle x,y,z x^2,y^2,z^2,y^{-1}y^{-1}x,yz^{-1}yxy^2z^{-1}yz^{-1}yz^{-1},y^{-1}z^{-1}yxy^{-1}z^{-1}yxy^{-1}z^{-1}yxy^{-1}z^{-1}yxy^{-1}z^{-1}yxy^{-1}z^{-1}yxy^{-1}z^{-1}yxy^{-1}z^{-1}yxy^{-1}z^{-1}yxy^{-1}z^{-1}yxy^{-1}z^{-1}yxy^{-1}z^{-1}yxy^{-1}z^{-1}yxy^{-1}z^{-1}yxy^{-1}z^{-1}yxy^{-1}z^{-1}yxy^{-1}z^{-1}yxy^{-1}z^{-1}yxy^{-1}z^{$	$\langle x,y,z x^2,y^4,z^8,z^{-1}y^{-1}x,xz^2yz^{-1}xzy^{-1}z^{-2},yz^{-1}yz^{-1}yzy^{-1}z^{-1}yz^{-1},zyxzyxyy^{-1}z^{-1}xy^{-1}z^{-1}x\rangle$	$\langle x,y,z x^2, y^4, z^8, z^{-1}y^{-1}x, xz^2yz^{-1}xzy^{-1}z^{-2}, zyxzyxy^{-1}z^{-1}xy^{-1}z^{-1}xy^{-1}z^{-1}xz^2y^{-1}zy^2z^{-1}yz^{-2}xy^{-1}z^{-2} \rangle$	$\langle x,y,z x^2,y^4,z^6,z^{-1}y^{-1}x,(z^{-1}yz^{-1})^4,xzyxzy^{-1}z^{-2}xy^{-1}z^{-1}xz^2yz^{-1},z^{-1}yz^{-1}xzy^{-1}zy^{-1}zy^{-1}zy^{-1}z^{-2}yz^{-1}y\rangle$	$\langle x,y,z x^2,y^3,z^8,z^{-1}y^{-1}x,xzyxzyxzyz^{-1}yz^{-1}xy^{-1}z^{-1}xy^{-1}z^{-1},(yz^{-1}xzy^{-1}z^{-2}xz^2)^2,yz^{-1}xz^2yxz^2yxz^2yxz^2yxzyz^{-1}xy^{-1}z^{-2}xy^{-1}z^{-2}xz^2yz^2yz^2yz^2yz^2yzz^2yzz^2yzz^2yzz^2$	$\langle x,y,z,w x^2,y^2,z^2,w^3,zyxw^{-1},(xy)^4,(xz)^6,yzxzxzyw^{-1}xzxw,zywxwxwxzxw^{-1}xw^{-1}xw^{-1}xw^{-1}y\rangle$	$\langle x,y,z x^2,y^4,z^8,z^{-1}y^{-1}x,xz^2yz^{-1}zzy^{-1}z^{-2},zyxzyxy^{-1}z^{-1}xy^{-1}z^{-1}x,z^{-1}yz^{-3}yxy^2z^{-1}yz^{-3}yz^{-1}y\rangle$	$\langle x,y,z x^2,y^4,z^8,z^{-1}y^{-1}x,xz^2yz^{-1}xzy^{-1}z^{-2},yxzy^{-1}zyyy^{-1}zyyy^{-1}zy^{-1}z^{-1}yz^{-2}\rangle$	$\langle x,y,z x^2,y^4,z^8,z^{-1}y^{-1}x,xz^3y^{-1}zy^{-1}z^4yz^{-1},(z^{-1}yz^{-1})^4,yz^{-1}yz^{-1}yz^{-1}yz^{-1}yxy^{-2}z^{-1}yz^{-1}xzy^{-1}z^2\rangle$	$\langle x,y,z x^2,y^4,z^8,z^{-1}y^{-1}x,xzyz^{-1}yxy^{-1}z^{-1}xy^{-1}z^{-1}yz^{-1}\rangle$	$\langle x,y,z x^2,y^4,z^8,z^{-1}y^{-1}x,zyxzyxy^{-1}z^{-1}xy^{-1}z^{-1}x,yxzy^{-1}z^{-1}xy^{-1}z^{-1}zyxy^{-1}zy^{-1}z^{-1}yz^{-2},z^{-1}xzyz^{-1}xzy^{-1}z^{-1}xy^{-1}z^{-1}yz^{-1}y\rangle$	$\langle x,y,z x^2,y^4,z^8,z^{-1}y^{-1}x,xz^3y^{-1}zy^{-1}z^4yz^{-1},(z^{-1}yz^{-1})^4,z^{-1}yz^{-1}yz^{-1}yxy^{-2}z^{-1}yz^{-$	$\langle x,y,z x^2,y^3,z^{-1}y^{-1}x,z^{12},xz^3yz^{-2}xz^2y^{-1}z^{-3}\rangle$	$\langle x,y,z x^2,y^3,z^{-1}y^{-1}x,z^{12},yz^{-1}xzyz^{-2}xzyxy^{-1}zy^{-1}z^{-3}xz,z^2yz^{-1}xzyxzyxzyxyy^{-1}z^{-2}xzy^{-1}z^{-1}x\rangle$	$\langle x,y,z x^2,y^3,z^{-1}y^{-1}x,z^{12},yz^{-1}xzyz^{-2}xzyxy^{-1}zy^{-1}z^{-3}xz,xzyxzyxzyxzyxzyxzyxzyxzyxzyxz^{-1}z^{-1}xy^{-1}z^{-1}\rangle$	$\langle x,y,z x^2,y^4,z^6,z^{-1}y^{-1}x,xzyxzy^{-1}zy^{-1}zy^{-1}z^{-1}xy^{-1}z^{-1}yz^{-1}y^{-2}y^{2}xyyy^{-1}z^{-2}xy^{-1}z^{-1}xy^{-1}z^{-1}x,(z^{-2}xz^2yz^{-1}y)^2\rangle$	$\langle x,y,z x^2,y^4,z^6,z^{-1}y^{-1}x,xzy^{-1}zy^{-1}z^{-3}y^2xy^{-1}zy^{-1}z^{-2},yz^{-2}yz^{-1}yxy^{-1}zy^{-1}z^{-1}yz^{-1}yz^{-1}yz^{-1},yzzyxzyxy^{-1}z^{-1}xy^{-1}z^{-1}xz\rangle$	$\langle x,y,z x^2,y^4,z^6,z^{-1}y^{-1}x,yxzy^{-1}zyxy^{-1}zy^{-1}z^{-1}yz^{-2},xzyxzy^{-1}zy^{-1}z^{-1}xy^{-1}z^{-1}yz^{-1}y,z^{-1}y$	$\langle x,y,z x^2,y^4,z^6,z^{-1}y^{-1}x,(z^{-1}yz^{-1})^4,(xz^2y)^4 \rangle$	$\langle x,y,z x^2,y^4,z^6,z^{-1}y^{-1}x,(xz^2y)^4,xzyxzy^{-1}zy^{-1}zy^{-1}z^{-1}xy^{-1}z^{-1}y,yxz^2yz^{-1}yxy^{-1}z^{-2}xy^{-1}z^{-2}yxz\rangle$	$\langle x,y,z x^2,y^4,z^5,z^{-1}y^{-1}x,xzy^{-1}z^2yz^{-1}yz^{-1}xzy^{-1}zy^{-1}z^{-2}yz^{-1},z^{-1}yz^{-1}yz^{-1}yz^{-1}yz^{-1}yz^{-1}z^{-2}yz^{-1}z^{-2}yz^{-1}yz^{-1}z^{-2}yz^{-1}z^{-2}yz^{-1}z^{-2}z^$	$\langle x,y,z x^2,y^3,z^8,z^{-1}y^{-1}x,xzyxzyxzyyy^{-1}z^{-1}xy^{-1}z^{-1}xy^{-1}z^{-1},xzy^{-1}z^{-3}xzyxz^3yxzyxyz^{-1}xzy^{-1}z^{-3}\rangle$	$\langle x,y,z x^2,y^3,z^8,z^{-1}y^{-1}x,zyz^{-1}xzy^{-1}z^{-2}xz^2yxyxzy^{-1}z^{-2}xz,xzy^{-1}z^{-3}xzyxz^3yxzyxyz^{-1}xzy^{-1}z^{-3}\rangle$	$\langle x,y,z x^2,y^3,z^8,z^{-1}y^{-1}x,zyxz^2yz^{-1}xzyz^{-1}xzyxz^4yz^{-2}x,xzy^{-1}z^{-3}xzyxz^3yxzyyz^{-1}xzy^{-1}z^{-3} \rangle$	$\langle x,y,z x^2, y^3, z^7, z^{-1}y^{-1}x, zyxzyxzy^{-1}z^{-2}yxzyxy^{-1}z^{-1}xy^{-1}z^{-1}xy^{-1}z^{-1}xy^{2}y^{2} - 1xz^2yz^{-1}xz^2yz^{-1}xz^2yxy^{-1}z^{-2}xyy^{-1}z^{-2}xzy^{-1}z^{-2}xy^{-2}xy^{-1}z^{-2}xy^{-1$	$\langle x,y,z x^2,y^4,z^6,z^{-1}y^{-1}x,(xz^2y)^4,y^{-1}zy^{-1}zy^{-1}z^{-3}yz^{-1}yz^{-1}xz^2\rangle$	$\langle x,y,z x^2,y^3,z^{-1}y^{-1}x,z^{12},yxz^3yxz^2y^{-1}z^{-1}xz^3,xzyxz^2yxzyxzyz^{-1}xzyxzyxzy^{-1}z^{-1}xy^{-1}z^{-1}xy^{-1}z^{-2}xy^{-1}z^{-1}\rangle$	$\langle x,y,z x^2,y^4,z^6,z^{-1}y^{-1}x,xzy^{-1}zyxy^{-1}z^{-1}yz^{-1},xzyz^{-1}xz^2y^{-2}z^{-3}yz^{-1}y^2z^{-2}xy^{-1}z^{-2}xy^{-1}z^{-2}\rangle$	Group