

The Orders of the Known Simple Groups as Far as One Trillion

By Craig Cato

Abstract. In this paper an update of L. E. Dickson's 1901 list of the orders of the known simple groups up to one billion is given. On the microfiche supplement is a complete list of all of the orders of the known simple groups as far as one trillion together with the Lie notation for these groups.

In 1901 L. E. Dickson [3, p. 309] gave a list of the orders of all the known simple groups as far as one million and a partial list of those up to one billion (the groups $\text{PSL}_2(q)$ for $q > 113$ were omitted). Since then no complete list updating Dickson's has appeared in print despite the fact that several new discoveries in this range have been made and much of Dickson's notation is no longer in use.

In Table 1 we bring Dickson's list up to date and, on the microfiche supplement, give a complete list of all the orders of the known nonabelian simple groups as far as one trillion in the Lie notation used by Gorenstein [5, p. 491]. The combined efforts of Marshall Hall, Jr. [6], [7] and Beisiegel and Stintl [1] now show that Table 1 includes all possible simple groups of order up to one million. Table 2 extends Table 1 with the known simple groups of order up to one billion, excluding the groups $\text{PSL}_2(p^n)$. The interested reader is referred to the recent paper by Gallian [4] for a detailed historical account of the search for finite simple groups.

Our notation is as follows: $\text{PSL}_n(q)$ is the projective special linear group; $\text{Sp}_{2n}(q)$ is the symplectic group; $\text{U}_n(q)$ is the unitary group; $\text{Alt}(n)$ is the alternating group; $\text{Sz}(q)$ is the Suzuki group; $G_2(q)$ is the Chevalley group of type G_2 ; $D_4(q)$ is the Chevalley group of type D_4 ; ${}^2D_4(q)$ is the twisted orthogonal group of type D_4 ; ${}^3D_4(q)$ is the triality twisted group of type D_4 . See [2] for complete details on these groups.

Standard notation is used for the sporadic groups: M_i is the group of permutations on i symbols discovered by Mathieu, Ja is the Janko group, HaJ is the Hall-Janko group, HiS is the Higman-Sims group, HJM is the Hall-Janko-McKay group, McL is the McLaughlin group, HHM is the Held-Higman-McKay group, Rud is the Rudvalis group, Suz is the Suzuki group, O'Nan is the O'Nan group, and Co_3 is the Conway .3 group. A brief discussion of these groups can also be found in [2, Chapter 16] and a complete list of all 26 known sporadic simple groups is given in [4].

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TABLE 1

The orders of all simple groups up to one million

<i>Order</i>	<i>Group type</i>
$60 = 2^2 \cdot 3 \cdot 5$	$\text{PSL}_2(4) = \text{PSL}_2(5) = \text{Alt}(5)$
$168 = 2^3 \cdot 3 \cdot 7$	$\text{PSL}_2(7) = \text{PSL}_3(2)$
$360 = 2^3 \cdot 3^2 \cdot 5$	$\text{PSL}_2(9) = \text{Alt}(6)$
$504 = 2^3 \cdot 3^2 \cdot 7$	$\text{PSL}_2(8)$
$660 = 2^2 \cdot 3 \cdot 5 \cdot 11$	$\text{PSL}_2(11)$
$1\ 092 = 2^2 \cdot 3 \cdot 7 \cdot 13$	$\text{PSL}_2(13)$
$2\ 448 = 2^4 \cdot 3^2 \cdot 17$	$\text{PSL}_2(17)$
$2\ 520 = 2^3 \cdot 3^2 \cdot 5 \cdot 7$	$\text{Alt}(7)$
$3\ 420 = 2^2 \cdot 3^2 \cdot 5 \cdot 19$	$\text{PSL}_2(19)$
$4\ 080 = 2^4 \cdot 3 \cdot 5 \cdot 17$	$\text{PSL}_2(16)$
$5\ 616 = 2^4 \cdot 3^3 \cdot 13$	$\text{PSL}_3(3)$
$6\ 048 = 2^5 \cdot 3^3 \cdot 7$	$U_3(3)$
$6\ 072 = 2^3 \cdot 3 \cdot 11 \cdot 23$	$\text{PSL}_2(23)$
$7\ 800 = 2^3 \cdot 3 \cdot 5^2 \cdot 13$	$\text{PSL}_2(25)$
$7\ 920 = 2^4 \cdot 3^2 \cdot 5 \cdot 11$	M_{11}
$9\ 828 = 2^2 \cdot 3^3 \cdot 7 \cdot 13$	$\text{PSL}_2(27)$
$12\ 180 = 2^2 \cdot 3 \cdot 5 \cdot 7 \cdot 29$	$\text{PSL}_2(29)$
$14\ 880 = 2^5 \cdot 3 \cdot 5 \cdot 31$	$\text{PSL}_2(31)$
$20\ 160 = 2^6 \cdot 3^2 \cdot 5 \cdot 7$	$\text{PSL}_4(2) = \text{Alt}(8)$
$20\ 160 = 2^6 \cdot 3^2 \cdot 5 \cdot 7$	$\text{PSL}_3(4)$
$25\ 308 = 2^2 \cdot 3^2 \cdot 19 \cdot 37$	$\text{PSL}_2(37)$
$25\ 920 = 2^6 \cdot 3^4 \cdot 5$	$\text{Sp}_4(3) = U_4(2)$
$29\ 120 = 2^6 \cdot 5 \cdot 7 \cdot 13$	$\text{Sz}(8)$
$32\ 736 = 2^5 \cdot 3 \cdot 11 \cdot 31$	$\text{PSL}_2(32)$
$34\ 440 = 2^3 \cdot 3 \cdot 5 \cdot 7 \cdot 41$	$\text{PSL}_2(41)$
$39\ 732 = 2^2 \cdot 3 \cdot 7 \cdot 11 \cdot 43$	$\text{PSL}_2(43)$
$51\ 888 = 2^4 \cdot 3 \cdot 23 \cdot 47$	$\text{PSL}_2(47)$
$58\ 800 = 2^4 \cdot 3 \cdot 5^2 \cdot 7^2$	$\text{PSL}_2(49)$
$62\ 400 = 2^6 \cdot 3 \cdot 5^2 \cdot 13$	$U_3(4)$
$74\ 412 = 2^2 \cdot 3^3 \cdot 13 \cdot 53$	$\text{PSL}_2(53)$
$95\ 040 = 2^6 \cdot 3^3 \cdot 5 \cdot 11$	M_{12}
$102\ 660 = 2^2 \cdot 3 \cdot 5 \cdot 29 \cdot 59$	$\text{PSL}_2(59)$
$113\ 460 = 2^2 \cdot 3 \cdot 5 \cdot 31 \cdot 61$	$\text{PSL}_2(61)$
$126\ 000 = 2^4 \cdot 3^2 \cdot 5^3 \cdot 7$	$U_3(5)$

$150\,348 = 2^2 \cdot 3 \cdot 11 \cdot 17 \cdot 67$	$\text{PSL}_2(67)$
$175\,560 = 2^3 \cdot 3 \cdot 5 \cdot 7 \cdot 11 \cdot 19$	Ja
$178\,920 = 2^3 \cdot 3^2 \cdot 5 \cdot 7 \cdot 71$	$\text{PSL}_2(71)$
$181\,440 = 2^6 \cdot 3^4 \cdot 5 \cdot 7$	Alt(9)
$194\,472 = 2^3 \cdot 3^2 \cdot 37 \cdot 73$	$\text{PSL}_2(73)$
$246\,480 = 2^4 \cdot 3 \cdot 5 \cdot 13 \cdot 79$	$\text{PSL}_2(79)$
$262\,080 = 2^6 \cdot 3^2 \cdot 5 \cdot 7 \cdot 13$	$\text{PSL}_2(64)$
$265\,680 = 2^4 \cdot 3^4 \cdot 5 \cdot 41$	$\text{PSL}_2(81)$
$285\,852 = 2^2 \cdot 3 \cdot 7 \cdot 41 \cdot 83$	$\text{PSL}_2(83)$
$352\,440 = 2^3 \cdot 3^2 \cdot 5 \cdot 11 \cdot 89$	$\text{PSL}_2(89)$
$372\,000 = 2^5 \cdot 3 \cdot 5^3 \cdot 31$	$\text{PSL}_3(5)$
$443\,520 = 2^7 \cdot 3^2 \cdot 5 \cdot 7 \cdot 11$	M_{22}
$456\,288 = 2^5 \cdot 3 \cdot 7^2 \cdot 97$	$\text{PSL}_2(97)$
$515\,100 = 2^2 \cdot 3 \cdot 5^2 \cdot 17 \cdot 101$	$\text{PSL}_2(101)$
$546\,312 = 2^3 \cdot 3 \cdot 13 \cdot 17 \cdot 103$	$\text{PSL}_2(103)$
$604\,800 = 2^7 \cdot 3^3 \cdot 5^2 \cdot 7$	HaJ
$612\,468 = 2^2 \cdot 3^3 \cdot 53 \cdot 107$	$\text{PSL}_2(107)$
$647\,460 = 2^2 \cdot 3^3 \cdot 5 \cdot 11 \cdot 109$	$\text{PSL}_2(109)$
$721\,392 = 2^4 \cdot 3 \cdot 7 \cdot 19 \cdot 113$	$\text{PSL}_2(113)$
$885\,720 = 2^3 \cdot 3 \cdot 5 \cdot 11^2 \cdot 61$	$\text{PSL}_2(121)$
$976\,500 = 2^2 \cdot 3^2 \cdot 5^3 \cdot 7 \cdot 31$	$\text{PSL}_2(125)$
$979\,200 = 2^8 \cdot 3^2 \cdot 5^2 \cdot 17$	$\text{Sp}_4(4)$

TABLE 2

The orders of the known simple groups between one million and one billion excluding $\text{PSL}_2(p^n)$

Order	Group type
$1\,451\,520 = 2^9 \cdot 3^4 \cdot 5 \cdot 7$	$\text{Sp}_6(2)$
$1\,814\,400 = 2^7 \cdot 3^4 \cdot 5^2 \cdot 7$	Alt(10)
$1\,876\,896 = 2^5 \cdot 3^2 \cdot 7^3 \cdot 19$	$\text{PSL}_3(7)$
$3\,265\,920 = 2^7 \cdot 3^6 \cdot 5 \cdot 7$	$U_4(3)$
$4\,245\,696 = 2^6 \cdot 3^6 \cdot 7 \cdot 13$	$G_2(3)$
$4\,680\,000 = 2^6 \cdot 3^2 \cdot 5^4 \cdot 13$	$\text{Sp}_4(5)$
$5\,515\,776 = 2^9 \cdot 3^4 \cdot 7 \cdot 19$	$U_3(8)$
$5\,663\,616 = 2^7 \cdot 3 \cdot 7^3 \cdot 43$	$U_3(7)$
$6\,065\,280 = 2^7 \cdot 3^6 \cdot 5 \cdot 13$	$\text{PSL}_4(3)$
$9\,999\,360 = 2^{10} \cdot 3^2 \cdot 5 \cdot 7 \cdot 31$	$\text{PSL}_5(2)$

$10\ 200\ 960 = 2^7 \cdot 3^2 \cdot 5 \cdot 7 \cdot 11 \cdot 23$	M_{23}
$13\ 685\ 760 = 2^{10} \cdot 3^5 \cdot 5 \cdot 11$	$U_5(2)$
$16\ 482\ 816 = 2^9 \cdot 3^2 \cdot 7^2 \cdot 73$	$PSL_3(8)$
$19\ 958\ 400 = 2^7 \cdot 3^4 \cdot 5^2 \cdot 7 \cdot 11$	$Alt(11)$
$32\ 537\ 600 = 2^{10} \cdot 5^2 \cdot 31 \cdot 41$	$Sz(32)$
$42\ 456\ 960 = 2^7 \cdot 3^6 \cdot 5 \cdot 7 \cdot 13$	$PSL_3(9)$
$42\ 573\ 600 = 2^5 \cdot 3^6 \cdot 5^2 \cdot 73$	$U_3(9)$
$44\ 352\ 000 = 2^9 \cdot 3^2 \cdot 5^3 \cdot 7 \cdot 11$	HiS
$50\ 232\ 960 = 2^7 \cdot 3^5 \cdot 5 \cdot 17 \cdot 19$	HJM
$70\ 915\ 680 = 2^5 \cdot 3^2 \cdot 5 \cdot 11^3 \cdot 37$	$U_3(11)$
$138\ 297\ 600 = 2^8 \cdot 3^2 \cdot 5^2 \cdot 7^4$	$Sp_4(7)$
$174\ 182\ 400 = 2^{12} \cdot 3^5 \cdot 5^2 \cdot 7$	$D_4(2)$
$197\ 406\ 720 = 2^{12} \cdot 3^4 \cdot 5 \cdot 7 \cdot 17$	${}^2D_4(2)$
$211\ 341\ 312 = 2^{12} \cdot 3^4 \cdot 7^2 \cdot 13$	${}^3D_4(2)$
$212\ 427\ 600 = 2^4 \cdot 3 \cdot 5^2 \cdot 7 \cdot 11^3 \cdot 19$	$PSL_3(11)$
$239\ 500\ 800 = 2^9 \cdot 3^5 \cdot 5^2 \cdot 7 \cdot 11$	$Alt(12)$
$244\ 823\ 040 = 2^{10} \cdot 3^3 \cdot 5 \cdot 7 \cdot 11 \cdot 23$	M_{24}
$251\ 596\ 800 = 2^{12} \cdot 3^3 \cdot 5^2 \cdot 7 \cdot 13$	$G_2(4)$
$270\ 178\ 272 = 2^5 \cdot 3^2 \cdot 7 \cdot 13^3 \cdot 61$	$PSL_3(13)$
$811\ 273\ 008 = 2^4 \cdot 3 \cdot 7^2 \cdot 13^3 \cdot 157$	$U_3(13)$
$898\ 128\ 000 = 2^7 \cdot 3^6 \cdot 5^3 \cdot 7 \cdot 11$	McL
$987\ 033\ 600 = 2^{12} \cdot 3^4 \cdot 5^2 \cdot 7 \cdot 17$	$PSL_4(4)$

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THE ORDERS OF THE KNOWN SIMPLE GROUPS
AS FAR AS ONE TRILLION

by Craig Cato

Here a complete list of all the orders of the known nonabelian simple groups as far as one trillion together with the Lie notation for these groups [5,p.491] is given. In the list below n represents the rank of the associated complex simple Lie algebras A_n, B_n, C_n, D_n ; q indicates the size of the field; and d designates the order of the central subgroup which was factored out to obtain a simple group. For the sporadic simple groups we set $n=q=d=0$.

The present notation compares with others currently in use as follows: $A_n(q) = SL(n+1, q)$; $C_n(q)/Z(C_n(q)) = S_{2n}(q)$; $B_n(q) = O_{2n}(q)$; $G_2(q) = E_2(q)$; $A_n(q) = SU(n+1, q)$; $B_2(q) = Sz(q)$; $G_2(q) = R.(q)$; $F_4(q) = R_2(q)$.

Also, the following isomorphisms exist among the groups listed below: $A_1(4) \cong A_1(5)/Z(A_1(5)) \cong Alt(5)$; $A_1(7)/Z(A_1(7)) \cong A_2(2)$; $A_1(9)/Z(A_1(9)) \cong Alt(6)$; $A_3(2) \cong Alt(8)$; $A_3(3) \cong B_3(3)/Z(B_3(3))$.

ORDER	GROUP	Q	N	D	ORDER	GROUP	Q	N	D	ORDER	GROUP	Q	N	D
60	AN(O)	4	1	1	60	AN(O)	5	1	2	60	ALT(N)	0	5	1
168	AN(O)	2	2	1	168	AN(O)	7	1	2	368	AN(O)	9	1	2
360	ALT(N)	0	6	1	504	AN(O)	8	1	1	660	AN(O)	11	1	2
1092	AN(O)	13	1	2	2448	AN(O)	17	1	2	2520	ALT(N)	0	7	1
3420	AN(O)	19	1	2	4080	AN(O)	16	1	1	5616	AN(O)	3	2	1
6096	2AN(O)	3	2	1	6072	AN(O)	23	1	2	7800	AN(O)	25	1	2
7920	M11	0	0	0	9028	AN(O)	27	1	2	12180	AN(O)	29	1	2
14880	AN(O)	31	1	2	20160	AN(O)	4	2	3	28160	AN(O)	2	3	1
20160	ALT(N)	0	8	1	25300	AN(O)	37	1	2	25920	BN(O)	3	2	2
25920	2AN(O)	2	3	1	29120	2B2(O)	8	0	1	32736	AN(O)	32	1	1
34440	AN(O)	41	1	2	39732	AN(O)	43	1	2	51888	AN(O)	47	1	2
58800	AN(O)	49	1	2	62400	2AN(O)	4	2	1	74412	AN(O)	53	1	2
95040	M12	0	0	0	102660	AN(O)	59	1	2	112368	AN(O)	61	1	2
126000	2AN(O)	5	2	3	159348	AN(O)	67	1	2	175560	JA	0	0	0
178920	AN(O)	71	1	2	181440	ALT(N)	0	9	1	194472	AN(O)	73	1	2
246480	AN(O)	79	1	2	262080	AN(O)	64	1	1	265680	AN(O)	81	1	2
285852	AN(O)	83	1	2	352440	AN(O)	89	1	2	372000	AN(O)	8	2	1
443520	M22	0	0	0	450288	AM(O)	97	1	2	515100	AN(O)	101	1	2
546312	AN(O)	103	1	2	604800	NAJ	0	8	0	612468	AN(O)	107	1	2
647460	AN(O)	109	1	2	721392	AN(O)	113	1	2	885720	AN(O)	121	1	2
976500	AN(O)	125	1	2	979200	BN(O)	4	2	1	1024128	AN(O)	127	1	2
1123980	AN(O)	131	1	2	1285680	AN(O)	137	1	2	1342740	AN(O)	139	1	2
1451520	AN(O)	2	3	1	1451520	ON(O)	2	3	1	1653900	AN(O)	149		
1721400	AN(O)	151	1	2	1814400	ALT(N)	0	10	1	1876896	AN(O)	7	2	3
1934868	AN(O)	157	1	2	2097024	AN(O)	128	1	1	2168292	AN(O)	163	1	2
2328648	AN(O)	167	1	2	2413320	AN(O)	169	1	2	2588772	AN(O)	173	1	2
2867680	AN(O)	179	1	2	2964780	AN(O)	181	1	2	3265028	2AN(O)	3	3	4
3463800	AN(O)	191	1	2	3504432	AN(O)	193	1	2	3822588	AN(O)	197	1	2
3940200	AN(O)	199	1	2	4245496	G2(O)	3	0	1	4488808	BN(O)	5	2	2
4696860	AN(O)	211	1	2	5515776	2AN(O)	8	2	3	5544672	AN(O)	223	1	2
5663616	2AN(O)	7	2	1	5844288	AN(O)	227	1	2	6004388	AN(O)	229	1	2
6665280	AN(O)	3	3	2	7174332	AN(O)	243	1	2	9999368	AN(O)	2	4	1
10290900	M23	0	0	0	1206640	AN(O)	289	1	2	12649184	AN(O)	233	1	2
13651680	AN(O)	239	1	2	13685760	2AN(O)	2	4	1	13997280	AN(O)	241	1	2
15813000	AN(O)	251	1	2	16482816	AN(O)	8	2	1	16776960	AN(O)	256	1	1
16974336	AN(O)	257	1	2	18191184	AN(O)	263	1	2	19464840	AN(O)	269	1	2
19902240	AN(O)	271	1	2	19958400	ALT(N)	0	11	1	20176632	AN(O)	343	1	2
41253656	AN(O)	277	1	2	22187760	AN(O)	281	1	2	22664984	AN(O)	283	1	2
43522760	AN(O)	361	1	2	25153464	AN(O)	293	1	2	2892136	AN(O)	367	1	2
30079920	AN(O)	311	1	2	30663964	AN(O)	313	1	2	31854496	AN(O)	317	1	2
32537660	2R2(O)	32	0	1	36264360	AN(O)	331	1	2	38272416	AN(O)	337	1	2
41781576	AN(O)	347	1	2	42456960	AN(O)	9	2	1	42508280	AN(O)	349	1	2
42573480	2AN(O)	9	2	1	43906624	AN(O)	353	1	2	44352880	HIS	0	0	0
46267920	AN(O)	359	1	2	49438468	AN(O)	367	1	2	5823268	N.W.	0	0	0
51894744	AN(O)	373	1	2	54439568	AN(O)	379	1	2	56181504	AN(O)	383	1	2
58863480	AN(O)	389	1	2	62570376	AN(O)	397	1	2	64408800	AN(O)	401	1	2
68417520	AN(O)	409	1	2	70915680	2AN(O)	11	2	3	73559648	AN(O)	419	1	2
74817680	AN(O)	529	1	2	74618840	AN(O)	421	1	2	88862560	AN(O)	431	1	2
81182304	AN(O)	433	1	2	84694880	AN(O)	439	1	2	86937884	AN(O)	443	1	2
90518400	AN(O)	449	1	2	95443536	AN(O)	457	1	2	97071728	AN(O)	461	1	2
99252384	AN(O)	463	1	2	101847096	AN(O)	467	1	2	109901760	AN(O)	479	1	2
115508816	AN(O)	487	1	2	118379280	AN(O)	491	1	2	122878880	AN(O)	625	1	2
124251600	AN(O)	499	1	2	127263824	AN(O)	503	1	2	131871728	AN(O)	569	1	2
134217216	AN(O)	512	1	1	138297600	BN(O)	7	2	2	14148208	AN(O)	581	1	2
143055144	AN(O)	523	1	2	158339880	AN(O)	541	1	2	163466776	AN(O)	547	1	2
172808136	AN(O)	557	1	2	174182400	DN(O)	2	4	1	178482904	AN(O)	563	1	2

ORDER	GROUP	Q	N	D	ORDER	GROUP	Q	N	D	ORDER	GROUP	Q	N	D
184219440	AN(O)	569	1	2	186188840	AN(O)	571	1	2	192099456	AN(O)	577	1	2
193709880	AN(O)	729	1	2	197400720	2DN(O)	2	4	1	202261416	AN(O)	587	1	2
208527264	AN(O)	593	1	2	211341312	3DA(O)	2	0	1	212427600	AN(O)	11	2	1
214921200	AN(O)	599	1	2	217081200	AN(O)	681	1	2	223647936	AN(O)	607	1	2
220345784	AN(O)	613	1	2	234884406	AN(O)	617	2	2	237176640	AN(O)	619	1	2
239500600	ALT(IN)	0	12	1	244823840	M24	0	0	0	251238960	AN(O)	631	1	2
251596600	G2(O)	4	0	1	263374080	AN(O)	641	1	2	265847664	AN(O)	643	1	2
270178272	AN(O)	13	2	1	270839376	AN(O)	647	1	2	278444424	AN(O)	653	1	2
296190520	AN(O)	659	1	2	288804120	AN(O)	661	1	2	297411248	AN(O)	841	1	2
304820544	AN(O)	673	1	2	310280056	AN(O)	677	1	2	318611384	AN(O)	683	1	2
324938680	AN(O)	691	1	2	344471400	AN(O)	701	1	2	356448120	AN(O)	709	1	2
371694240	AN(O)	719	1	2	384239856	AN(O)	727	1	2	393832144	AN(O)	733	1	2
403582680	AN(O)	739	1	2	410171664	AN(O)	743	1	2	423564480	AN(O)	751	1	2
433797336	AN(O)	757	1	2	440710320	AN(O)	761	1	2	443751360	AN(O)	961	1	2
454755840	AN(O)	769	1	2	461889144	AN(O)	773	1	2	487442616	AN(O)	787	1	2
506260776	AN(O)	797	1	2	529474320	AN(O)	809	1	2	533410920	AN(O)	811	1	2
553386840	AN(O)	821	1	2	557440944	AN(O)	823	1	2	565608456	AN(O)	827	1	2
569721960	AN(O)	829	1	2	590588880	AN(O)	839	1	2	620649624	AN(O)	853	1	2
629421936	AN(O)	857	1	2	633838920	AN(O)	859	1	2	642734784	AN(O)	863	1	2
674525256	AN(O)	877	1	2	683796960	AN(O)	881	1	2	688664504	AN(O)	883	1	2
697063216	AN(O)	887	1	2	746141736	AN(O)	907	1	2	756057120	AN(O)	911	1	2
776150640	AN(O)	919	1	2	801764160	AN(O)	929	1	2	811273088	2AN(O)	13	2	1
822656016	AN(O)	937	1	2	833836680	AN(O)	941	1	2	849277176	AN(O)	947	1	2
865522224	AN(O)	953	1	2	898126000	MCL	0	0	0	984288096	AN(O)	967	1	2
915497640	AN(O)	971	1	2	932573856	AN(O)	977	1	2	949861184	AN(O)	983	1	2
973241280	AN(O)	991	1	2	987033600	AN(O)	4	3	1	991825976	AN(O)	997	1	2
1018368000	2AN(O)	4	3	1	1027242720	AN(O)	1009	1	2	1039588184	AN(O)	1013	1	2
1067606560	BN(O)	8	2	1	1058088940	AN(O)	1019	1	2	1064331240	AN(O)	1021	1	2
1073740800	AN(O)	1024	1	1	1095911760	AN(O)	1031	1	2	1102361984	AN(O)	1033	1	2
1121621260	AN(O)	1039	1	2	1154319600	AN(O)	1049	1	2	1166934600	AN(O)	1051	1	2
1178974196	AN(O)	1331	1	2	1194388920	AN(O)	1061	1	2	1201155984	AN(O)	1063	1	2
1221610440	AN(O)	1069	1	2	1282862520	AN(O)	1369	1	2	1284364416	AN(O)	1087	1	2
1298595480	AN(O)	1091	1	2	1305750264	AN(O)	1093	1	2	1326138576	AN(O)	1097	1	2
1341918624	AN(O)	1103	1	2	1363936920	AN(O)	1109	1	2	1393667496	AN(O)	1117	1	2
1416246784	AN(O)	1123	1	2	1425715200	AN(O)	16	2	3	1439668568	AN(O)	1119	1	2
1524844800	AN(O)	1151	1	2	1532687424	AN(O)	1153	1	2	1573034584	AN(O)	1163	1	2
1605722040	AN(O)	1171	1	2	1647211560	AN(O)	1181	1	2	1672445816	AN(O)	1187	1	2
1679348064	AN(O)	1193	1	2	1721600400	BN(O)	9	2	2	1732322400	AN(O)	1201	1	2
1784769384	AN(O)	1213	1	2	1882484096	AN(O)	1217	1	2	1824927344	AN(O)	1223	1	2
1856330760	AN(O)	1229	1	2	1865408160	AN(O)	1231	1	2	1892817816	AN(O)	1237	1	2
1946440600	AN(O)	1249	1	2	195615720	AN(O)	1259	1	2	2002439656	AN(O)	1277	1	2
2062239360	AN(O)	1279	1	2	2111930964	AN(O)	1283	1	2	2141699280	AN(O)	1289	1	2
2151683880	AN(O)	1291	1	2	2181823776	AN(O)	1297	1	2	2202072600	AN(O)	1301	1	2
2212243824	AN(O)	1303	1	2	2232680136	AN(O)	1307	1	2	2294743440	AN(O)	1319	1	2
2305147840	AN(O)	1321	1	2	2817678272	2AN(O)	17	2	3	2336751456	AN(O)	1327	1	2
2375051280	AN(O)	1681	1	2	2521007520	AN(O)	1361	1	2	2524480496	AN(O)	1367	1	2
2588280744	AN(O)	1373	1	2	2633787960	AN(O)	1381	1	2	2736122800	AN(O)	1399	1	2
2797259520	AN(O)	1409	1	2	2801472544	AN(O)	1403	1	2	2905840856	AN(O)	1427	1	2
2918075160	AN(O)	1429	1	2	2942648304	AN(O)	1433	1	2	2979768080	AN(O)	1439	1	2
3024740176	AN(O)	1447	1	2	3054935488	AN(O)	1451	2	2	3067588224	AN(O)	1453	1	2
3105744120	AN(O)	1459	1	2	3113519440	ALT(N)	0	13	1	3166680600	AN(O)	1843	1	2
3184008640	AN(O)	1471	1	2	3248366160	AN(O)	1481	1	2	3261544184	AN(O)	1483	1	2
3286006816	AN(O)	1487	1	2	3301291680	AN(O)	1489	1	2	3327988664	AN(O)	1493	1	2
3388253000	AN(O)	1499	1	2	3449794320	AN(O)	1511	1	2	3532864144	AN(O)	1523	1	2
3588602760	AN(O)	1531	1	2	3673648464	AN(O)	1543	1	2	3716678688	AN(O)	1549	1	2
3745537424	AN(O)	1553	1	2	3789118320	AN(O)	1559	1	2	3847749696	AN(O)	1567	1	2

ORDER	GROUP	Q	N	D	ORDER	GROUP	Q	N	D	ORDER	GROUP	Q	N	D
367720840	AN(O)	1571	1	2	393682960	AN(O)	1579	1	2	396682070	AN(O)	1583	1	2
463633720	MMH	0	0	0	4073881576	AN(O)	1597	1	2	4183683280	AN(O)	1601	1	2
4149493936	AN(O)	1607	1	2	4165507920	AN(O)	1609	1	2	4196651784	AN(O)	1613	1	2
4243658040	AN(O)	1619	1	2	4259404440	AN(O)	1621	1	2	4279234560	2AN(O)	16	2	1
4306877256	AN(O)	1627	1	2	436780216	AN(O)	1637	1	2	4549538736	AN(O)	1657	1	2
4545351680	RN(O)	3	3	2	4585351680	CN(O)	3	3	2	4599139544	AN(O)	1663	1	2
4632406296	AN(O)	1667	1	2	4649099640	AN(O)	1669	1	2	4852557864	AN(O)	1693	1	2
4967034176	AN(O)	1697	1	2	4904333400	AN(O)	1699	1	2	4991442120	AN(O)	1709	1	2
5697326440	AN(O)	1721	1	2	5115118344	AN(O)	1723	1	2	5284468184	AN(O)	1733	1	2
5230175108	AN(O)	1817	1	2	5277110280	AN(O)	1741	1	2	5302248580	AN(O)	2197	1	2
5331357976	AN(O)	1747	1	2	5386983024	AN(O)	1753	1	2	5309665660	AN(O)	2209	1	2
5442468720	AN(O)	1759	1	2	5611284656	AN(O)	1777	1	2	5644482640	AN(O)	19	2	3
5688313904	AN(O)	1783	1	2	5765648616	AN(O)	1787	1	2	5725738280	AN(O)	1789	1	2
5841723600	AN(O)	1801	1	2	5859004000	GE(O)	5	0	1	5939572320	AN(O)	1819	1	2
6056426944	AN(O)	1823	1	2	6138537360	AN(O)	1831	1	2	6388870576	AN(O)	1847	1	2
6445238520	AN(O)	1861	1	2	6507779496	AN(O)	1867	1	2	6549697440	AN(O)	1871	1	2
6570723744	AN(O)	1873	1	2	6612911256	AN(O)	1877	1	2	6634072560	AN(O)	1879	1	2
6740566480	AN(O)	1889	1	2	6869833800	AN(O)	1901	1	2	6920642400	AN(O)	2481	1	2
6935087736	AN(O)	1907	1	2	6959208928	AN(O)	17	2	1	7080753584	AN(O)	1913	1	2
7200235560	AN(O)	1931	1	2	7222631304	AN(O)	1933	1	2	7254000080	AN(O)	5	3	4
7403471400	AN(O)	1949	1	2	7426286400	AN(O)	1951	1	2	7680352344	AN(O)	1973	1	2
7706347600	AN(O)	1979	1	2	7845009816	AN(O)	1987	1	2	7916291664	AN(O)	1993	1	2
8127275320	AN(O)	2011	1	2	7988004800	AN(O)	1999	1	2	8036852024	AN(O)	2003	1	2
8127275320	AN(O)	2011	1	2	8205736896	AN(O)	2017	1	2	8323913656	AN(O)	2027	1	2
8753068360	AN(O)	2029	1	2	8477183280	AN(O)	2039	1	2	8589932544	AN(O)	2049	1	1
8633000824	AN(O)	2053	1	2	8780061984	AN(O)	2063	1	2	8856892840	AN(O)	2069	1	2
9011895360	AN(O)	2081	1	2	9037903720	2AN(O)	2083	1	2	9090078416	AN(O)	2087	1	2
9116226880	AN(O)	2089	1	2	9196830720	2AN(O)	2	5	3	9247776208	AN(O)	2099	1	2
9407231520	AN(O)	2111	1	2	9434054784	AN(O)	2113	1	2	9649995060	AN(O)	2129	1	2
9477211960	AN(O)	2131	1	2	9759183216	AN(O)	2137	1	2	9814887880	AN(O)	2141	1	2
9841616064	AN(O)	2143	1	2	9988003424	AN(O)	2153	1	2	1007344472	202(O)	27	0	1
10091697120	AN(O)	2161	1	2	10345979160	AN(O)	2179	1	2	10691617224	AN(O)	2203	1	2
10749961536	AN(O)	2207	1	2	10937875384	AN(O)	2213	1	2	10955837660	AN(O)	2221	1	2
11682179160	AN(O)	2209	1	2	11194323816	AN(O)	2237	1	2	11224375680	AN(O)	2239	1	2
11784640564	AN(O)	2243	1	2	11405817000	AN(O)	2251	1	2	11658765996	AN(O)	2267	1	2
11616289840	AN(O)	2259	1	2	11743518144	AN(O)	2273	1	2	11867951760	AN(O)	2281	1	2
11961851616	AN(O)	2287	1	2	12056244664	AN(O)	2293	1	2	12119449776	AN(O)	2297	1	2
12310387320	AN(O)	2309	1	2	12342403920	AN(O)	2311	1	2	12698257704	AN(O)	2333	1	2
12796481800	AN(O)	2339	1	2	12829335480	AN(O)	2341	1	2	12866654400	8AN(O)	11	2	2
12962233576	AN(O)	2347	1	2	12904447200	AN(O)	2351	1	2	13094198336	AN(O)	2357	1	2
13328908440	AN(O)	2371	1	2	13430345256	AN(O)	2377	1	2	13498269960	AN(O)	2361	1	2
13532313504	AN(O)	2383	1	2	13634787480	AN(O)	2389	1	2	13703390864	AN(O)	2393	1	2
13806724800	AN(O)	2399	1	2	14014950128	AN(O)	2411	1	2	14119843296	AN(O)	2417	1	2
14225238944	AN(O)	2423	1	2	14473265816	AN(O)	2437	1	2	14544649680	AN(O)	2441	1	2
14632186176	AN(O)	2447	1	2	14762000000	2AN(O)	5	3	2	148668784120	AN(O)	2459	1	2
15014379096	AN(O)	2467	1	2	15124195344	AN(O)	2473	1	2	15197782856	AN(O)	2477	1	2
15258787500	AN(O)	3125	1	2	15681315224	AN(O)	2503	1	2	16022064240	AN(O)	2521	1	2
16213484760	AN(O)	2531	1	2	16367714280	AN(O)	2539	1	2	16445194464	AN(O)	2543	-1	2
16561872600	AN(O)	2549	1	2	16688887600	AN(O)	2551	1	2	16718368136	AN(O)	2557	1	2
16936986400	2AN(O)	19	2	1	17153547960	AN(O)	2579	1	2	17394168400	AN(O)	2591	1	2
17434419264	AN(O)	2593	1	2	17579149920	AN(O)	2609	1	2	17823616496	AN(O)	2617	1	2
18005326440	AN(O)	2621	1	2	18253767564	AN(O)	2633	1	2	18544491376	AN(O)	2647	1	2
1875484736	AN(O)	2657	1	2	18799874520	AN(O)	2659	1	2	18884845584	AN(O)	2663	1	2
1905955040	AN(O)	2671	1	2	19184260956	AN(O)	2677	1	2	19313943360	AN(O)	2683	1	2
1946054016	AN(O)	2687	1	2	19463480880	AN(O)	2689	1	2	19536393864	AN(O)	2693	1	2
19661135400	AN(O)	2699	1	2	19836484536	AN(O)	2707	1	2	19928458720	AN(O)	2711	1	2

ORDER	GROUP	Q	N	D	ORDER	GROUP	Q	N	D	ORDER	GROUP	Q	N	D
19968678304	AN(O)	2713	1	2	20181458240	AN(O)	2719	1	2	20156799760	AN(O)	2	5	1
20324063760	AN(O)	2729	1	2	20368781160	AN(O)	2731	1	2	20592352200	AN(O)	2741	1	2
20774193000	AN(O)	2749	1	2	20865089824	AN(O)	2753	1	2	21992656000	AN(O)	3481	1	2
21184948996	AN(O)	2767	1	2	21415444056	AN(O)	2777	1	2	21694292200	AN(O)	2769	1	2
21740996864	AN(O)	2791	1	2	21801512776	AN(O)	2797	1	2	21975525400	AN(O)	2801	1	2
22622632824	AN(O)	2803	1	2	22461914440	AN(O)	2819	1	2	22737344704	AN(O)	2833	1	2
22833787416	AN(O)	2837	1	2	22978964264	AN(O)	2843	1	2	23173440020	AN(O)	2851	1	2
23320113936	AN(O)	2857	1	2	23418208520	AN(O)	2861	1	2	23362994560	AN(O)	2879	1	2
24662475216	AN(O)	2887	1	2	24313385376	AN(O)	2897	1	2	24464745424	AN(O)	2903	1	2
24616772520	AN(O)	2909	1	2	24820426296	AN(O)	2917	1	2	25076569956	AN(O)	2927	1	2
25386259680	AN(O)	2939	1	2	25750774224	AN(O)	2953	1	2	25760185320	AN(O)	3721	1	2
25855558536	AN(O)	2957	1	2	26013267384	AN(O)	2963	1	2	26854467956	ZAM(O)	23	2	3
26171616240	AN(O)	2969	1	2	26224541640	AN(O)	2971	1	2	26973060400	AN(O)	2999	1	2
27027006000	AN(O)	3001	1	2	27290807320	AN(O)	3011	1	2	27514232440	AN(O)	3019	1	2
27625770144	AN(O)	3023	1	2	28011368616	AN(O)	3037	1	2	28122194880	AN(O)	3041	1	2
28344723600	AN(O)	3049	1	2	28646712920	AN(O)	3051	1	2	28849698696	AN(O)	3067	1	2
29189658960	AN(O)	3079	1	2	29303569704	AN(O)	3083	1	2	29474990880	AN(O)	3089	1	2
30051220920	AN(O)	3109	1	2	30342131040	AN(O)	3119	1	2	30489537440	AN(O)	3121	1	2
30870449216	AN(O)	3137	1	2	31644449584	AN(O)	3163	1	2	31764655296	AN(O)	3167	1	2
31624872640	AN(O)	3169	1	2	32187775560	AN(O)	3181	1	2	32370257016	AN(O)	3187	1	2
32592293680	AN(O)	3191	1	2	32860243224	AN(O)	3203	1	2	33045255120	AN(O)	3209	1	2
33293016096	AN(O)	3217	1	2	33417359640	AN(O)	3221	1	2	33664974760	AN(O)	3229	1	2
34093383680	2R2(O)	120	0	1	34359819080	AN(O)	3251	1	2	34423272924	AN(O)	3253	1	2
34650412336	AN(O)	3257	1	2	3547256736	AN(O)	3259	1	2	34997848240	AN(O)	3271	1	2
35494336600	AN(O)	3299	1	2	35946676600	AN(O)	3301	1	2	36166172136	AN(O)	3307	1	2
36363381984	AN(O)	3313	1	2	36561307440	AN(O)	3319	1	2	36693659444	AN(O)	3323	1	2
36892770960	AN(O)	3329	1	2	36959310360	AN(O)	3331	1	2	373640191264	AN(O)	3343	1	2
37494459576	AN(O)	3347	1	2	37899193920	AN(O)	3359	1	2	37964931520	AN(O)	3361	1	2
38306830440	AN(O)	3371	1	2	38375952744	AN(O)	3373	1	2	38923749480	AN(O)	3389	1	2
38992702080	AN(O)	3391	1	2	39547256736	AN(O)	3407	1	2	39754562564	AN(O)	3413	1	2
40459580304	AN(O)	3433	1	2	41027924480	AN(O)	3449	1	2	41314481536	AN(O)	3457	1	2
41457657720	AN(O)	3461	1	2	41529570384	AN(O)	3463	1	2	41673648996	AN(O)	3467	1	2
41745807240	AN(O)	3469	1	2	42545096280	AN(O)	3491	1	2	42838257980	AN(O)	3499	1	2
43280518320	AN(O)	3511	1	2	43502785896	AN(O)	3517	1	2	43589145660	ALT(N)	0	14	1
43874920656	AN(O)	3527	1	2	43946013360	AN(O)	3529	1	2	44490214764	AN(O)	3533	1	2
444324274280	AN(O)	3539	1	2	44399465880	AN(O)	3541	1	2	44625944796	AN(O)	3547	1	2
45004046136	AN(O)	3557	1	2	45080002320	AN(O)	3559	1	2	45291880840	AN(O)	4489	1	2
45537534840	AN(O)	3571	1	2	45921168360	AN(O)	3581	1	2	45998154704	AN(O)	3583	1	2
46384365264	AN(O)	3593	1	2	46928605936	AN(O)	3607	1	2	47163263764	AN(O)	3613	1	2
47320082496	AN(O)	3617	1	2	47377612800	GM(O)	2	4	1	47377612800	GM(O)	2	4	1
47555961744	AN(O)	3623	1	2	47871684960	AN(O)	3631	1	2	48189392216	AN(O)	3637	1	2
48347885064	AN(O)	3643	1	2	49877105200	AN(O)	3659	1	2	49471277044	AN(O)	3671	1	2
49521785544	AN(O)	3673	1	2	49714246056	AN(O)	3677	1	2	50284264608	AN(O)	3691	1	2
50529886176	AN(O)	3697	1	2	50094877480	AN(O)	3701	1	2	50778490960	AN(O)	25	3	3
51023526120	AN(O)	3709	1	2	51437340240	AN(O)	3719	1	2	51746097856	AN(O)	3727	1	2
52020430104	AN(O)	3733	1	2	52271648480	AN(O)	3739	1	2	53199796320	AN(O)	3761	1	2
531654614896	AN(O)	3767	1	2	53544061840	AN(O)	3769	1	2	53967294360	AN(O)	3779	1	2
54509314464	AN(O)	3793	1	2	54742130776	AN(O)	3797	1	2	55022958824	AN(O)	3803	1	2
55786752840	AN(O)	3821	1	2	55874398944	AN(O)	3823	1	2	56314608764	AN(O)	3833	1	2
56933122576	AN(O)	3847	1	2	57111100208	AN(O)	3851	1	2	57284012764	AN(O)	3853	1	2
57846652784	AN(O)	3863	1	2	58275683256	AN(O)	3877	1	2	58454242968	AN(O)	3883	1	2
58184486480	AN(O)	3889	1	2	59283935792	AN(O)	4913	1	2	59638979736	AN(O)	3907	1	2
59822343120	AN(O)	3911	1	2	60898082296	AN(O)	3917	1	2	60190196440	AN(O)	3919	1	2
60374687544	AN(O)	3923	1	2	60852130160	AN(O)	3929	1	2	60746796640	AN(O)	3923	1	2
61382798864	AN(O)	3943	1	2	61489558176	AN(O)	3947	1	2	62429680096	AN(O)	3967	1	2
63473466680	AN(O)	3989	1	2	64446008000	AN(O)	4001	1	2	64281394400	AN(O)	3941	1	2

ORDER	GROUP	Q	N	D	ORDER	GROUP	Q	N	D	ORDER	GROUP	Q	N	D
64144104824	AN(O)	4003	1	2	64335584336	AN(O)	4007	1	2	64426825104	AN(O)	4013	1	2
64181334940	AN(O)	4019	1	2	6501132972040	AN(O)	4021	1	2	65364763456	AN(O)	4027	1	2
663680925600	AN(O)	4049	1	2	66479304600	AN(O)	4051	1	2	66775169136	AN(O)	4057	1	2
67568332944	AN(O)	4073	1	2	67867380960	AN(O)	4079	1	2	68468121408	AN(O)	4091	1	2
68518681440	RN(O)	13	2	2	68565588264	AN(O)	4093	1	2	68719472640	AN(O)	4096	1	1
688785782800	AN(O)	4099	1	2	69477215520	AN(O)	4111	1	2	78291390256	AN(O)	4127	1	2
70393345600	AN(O)	4129	1	2	78598618594	AN(O)	4133	1	2	79946533408	AN(O)	4139	1	2
71628485424	AN(O)	4153	1	2	78183563736	AN(O)	4157	1	2	71939307520	AN(O)	4159	1	2
72877489056	AN(O)	4177	1	2	74140928400	AN(O)	4201	1	2	74671641728	AN(O)	4211	1	2
74991282096	AN(O)	4217	1	2	75998031240	AN(O)	4219	1	2	75633296768	AN(O)	4229	1	2
75667110480	AN(O)	5329	1	2	75748854160	AN(O)	4231	1	2	76278965280	AN(O)	4241	1	2
76386932664	AN(O)	4243	1	2	76929290824	AN(O)	4253	1	2	77254341728	AN(O)	4259	1	2
77363227320	AN(O)	4261	1	2	77989190240	AN(O)	4271	1	2	78818690144	AN(O)	4273	1	2
78156525216	AN(O)	23	2	1	78567728944	AN(O)	4283	1	2	78898305280	AN(O)	4289	1	2
79346701776	AN(O)	4297	1	2	81014189456	AN(O)	4327	1	2	81577994416	AN(O)	4337	1	2
81690005880	AN(O)	4339	1	2	82256116200	AN(O)	4349	1	2	82718884936	AN(O)	4357	1	2
83053855784	AN(O)	4363	1	2	82625438744	AN(O)	4373	1	2	84652344880	AN(O)	4391	1	2
85009874376	AN(O)	4387	1	2	85707785520	AN(O)	4409	1	2	86449550848	AN(O)	4421	1	2
86526830544	AN(O)	4423	1	2	87587533680	AN(O)	4441	1	2	87943818176	AN(O)	4447	1	2
88180541400	AN(O)	4451	1	2	88537627536	AN(O)	4457	1	2	88895673384	AN(O)	4463	1	2
89975612160	AN(O)	4481	1	2	90996146184	AN(O)	4483	1	2	90784484664	AN(O)	4493	1	2
91550987336	AN(O)	4507	1	2	919117029184	AN(O)	4513	1	2	92161851806	AN(O)	4517	1	2
92284125840	AN(O)	4519	1	2	9252399144	AN(O)	4523	1	2	94818178776	AN(O)	4547	1	2
94134276600	AN(O)	4549	1	2	94881205920	AN(O)	4561	1	2	95256147696	AN(O)	4567	1	2
96268818704	AN(O)	4583	1	2	9676592480	AN(O)	4591	1	2	97145679576	AN(O)	4597	1	2
9752659624	AN(O)	4603	1	2	98675170440	AN(O)	4621	1	2	99783698216	AN(O)	4637	1	2
99832764480	AN(O)	4639	1	2	10091823184	AN(O)	4643	1	2	10097976480	AN(O)	4649	1	2
100609581800	AN(O)	4651	1	2	100996376736	AN(O)	4657	1	2	101398257584	AN(O)	4663	1	2
102043964544	AN(O)	4673	1	2	102437534160	AN(O)	4679	1	2	103227706440	AN(O)	4671	1	2
104021932224	AN(O)	4703	1	2	105220892640	AN(O)	4721	1	2	105354678344	AN(O)	4723	1	2
105756707780	AN(O)	4729	1	2	10662592800	AN(O)	4733	1	2	107249872800	AN(O)	4751	1	2
107792212720	AN(O)	4759	1	2	109462111904	AN(O)	4783	1	2	109695966016	AN(O)	4787	1	2
109833616280	AN(O)	4789	1	2	11010800464	AN(O)	4793	1	2	110522896080	AN(O)	4799	1	2
110601129600	AN(O)	4801	1	2	11149299088	AN(O)	4813	1	2	111771201696	AN(O)	4817	1	2
112748583360	AN(O)	4831	1	2	114962124280	AN(O)	4861	1	2	119572463440	AN(O)	4871	1	2
11600009256	AN(O)	4877	1	2	116858442480	AN(O)	4889	1	2	117865217624	AN(O)	4903	1	2
118298456520	AN(O)	4909	1	2	119922878400	AN(O)	4919	1	2	119896881568	AN(O)	4931	1	2
120042629384	AN(O)	4933	1	2	120328280816	AN(O)	4937	1	2	120773544880	AN(O)	4943	1	2
121380892480	AN(O)	4951	1	2	121543724440	AN(O)	6241	1	2	121842659536	AN(O)	4957	1	2
122541294096	AN(O)	4967	1	2	122689380240	AN(O)	4969	1	2	122905918344	AN(O)	4973	1	2
124027527816	AN(O)	4987	1	2	124475729644	AN(O)	4993	1	2	124925410880	AN(O)	4999	1	2
125225130024	AN(O)	5003	1	2	125676218720	AN(O)	5009	1	2	125826811328	AN(O)	5011	1	2
126581619240	AN(O)	5021	1	2	126732942144	AN(O)	5023	1	2	127947669280	AN(O)	5039	1	2
128084142600	AN(O)	5051	1	2	129477415320	AN(O)	5059	1	2	130844384456	AN(O)	5077	1	2
131173941360	AN(O)	5081	1	2	131369188416	AN(O)	5087	1	2	132572988280	AN(O)	5099	1	2
132729040200	AN(O)	5101	1	2	133197954936	AN(O)	5107	1	2	133647972784	AN(O)	5113	1	2
134139095040	AN(O)	5119	1	2	136352386376	AN(O)	5147	1	2	136829711424	AN(O)	5153	1	2
137947987296	AN(O)	5167	1	2	138266104040	AN(O)	5171	1	2	138911045160	AN(O)	5179	1	2
139717561080	AN(O)	5189	1	2	140364775176	AN(O)	5197	1	2	141214764960	AN(O)	5261	1	2
141339339120	AN(O)	5209	1	2	142806626056	AN(O)	5227	1	2	143137738160	AN(O)	5231	1	2
143301979184	AN(O)	5233	1	2	143638841816	AN(O)	5237	1	2	145614899320	AN(O)	5261	1	2
145926144000	RUD	0	0	0	144613276144	AN(O)	5273	1	2	147144327360	AN(O)	5279	1	2
147281997760	AN(O)	5281	1	2	148624327776	AN(O)	5297	1	2	149129947824	AN(O)	5369	1	2
149636713320	AN(O)	5309	1	2	150823627944	AN(O)	5323	1	2	151475289784	AN(O)	5323	1	2
152353580880	2AN(O)	25	2	1	152872911576	AN(O)	5347	1	2	153216253280	AN(O)	5351	1	2
155807715960	AN(O)	5381	1	2	156329498216	AN(O)	5387	1	2	156882428864	AN(O)	5393	1	2

ORDER	GROUP	Q	N	D	ORDER	GROUP	Q	N	D	ORDER	GROUP	Q	N	D
157376538800	AN(O)	5399	1	2	158077144736	AN(O)	5407	1	2	15863974584	AN(O)	5413	1	2
158959841296	AN(O)	5417	1	2	159121969840	AN(O)	5419	1	2	160191472560	AN(O)	5431	1	2
164872298316	AN(O)	5437	1	2	161077975680	AN(O)	5441	1	2	161255667840	AN(O)	5443	1	2
16136384560	AN(O)	6859	1	2	161878952400	AN(O)	5449	1	2	163470163240	AN(O)	6889	1	2
163737996640	AN(O)	5471	1	2	164296448056	AN(O)	5477	1	2	164476511760	AN(O)	5479	1	2
164837008184	AN(O)	5483	1	2	166445761888	AN(O)	5501	1	2	166597358880	ZAN(O)	29	2	3
166647393024	AN(O)	5503	1	2	167101653336	AN(O)	5507	1	2	168195287840	AN(O)	5519	1	2
166298030240	AN(O)	5521	1	2	168837292456	AN(O)	5527	1	2	169284134760	AN(O)	5531	1	2
1716101538136	AN(O)	5557	1	2	172157942984	AN(O)	5563	1	2	172715429440	AN(O)	5569	1	2
173088061944	AN(O)	5573	1	2	173834532360	AN(O)	5581	1	2	174778439480	AN(O)	5591	1	2
177788733744	AN(O)	5623	1	2	179318726480	AN(O)	5639	1	2	179581584488	AN(O)	5641	1	2
180074969376	AN(O)	5647	1	2	184957963800	AN(O)	5651	1	2	1864495774424	AN(O)	5653	1	2
181033322736	AN(O)	5657	1	2	181225440520	AN(O)	5659	1	2	182187827640	AN(O)	5669	1	2
183540941304	AN(O)	5683	1	2	185122892880	AN(O)	5689	1	2	184511541844	AN(O)	5693	1	2
185290481400	AN(O)	5701	1	2	186267234720	AN(O)	5711	1	2	186654931096	AN(O)	5717	1	2
188822844816	AN(O)	5737	1	2	189218078288	AN(O)	5741	1	2	189415901644	AN(O)	5743	1	2
190010199000	AN(O)	5749	1	2	193089338368	AN(O)	5779	1	2	193401377984	AN(O)	5783	1	2
194205122880	AN(O)	5791	1	2	195212931600	AN(O)	5801	1	2	195619267136	AN(O)	5807	1	2
196426896984	AN(O)	5813	1	2	197238996840	AN(O)	5821	1	2	197849538456	AN(O)	5827	1	2
199074398880	AN(O)	5839	1	2	199483800264	AN(O)	5843	1	2	200896969280	AN(O)	5849	1	2
200304304200	AN(O)	5851	1	2	2009221151936	AN(O)	5857	1	2	201333066528	AN(O)	5861	1	2
201952043496	AN(O)	5867	1	2	202158644940	AN(O)	5869	1	2	203193766568	AN(O)	5879	1	2
203401206960	AN(O)	5881	1	2	205065863376	AN(O)	5897	1	2	205694443424	AN(O)	5963	1	2
207790259544	AN(O)	5923	1	2	208211527056	AN(O)	5927	1	2	209476745888	AN(O)	5939	1	2
210963652224	AN(O)	5953	1	2	213954485160	AN(O)	5981	1	2	214599033816	AN(O)	5987	1	2
216756876336	AN(O)	6007	1	2	217190173328	AN(O)	6011	1	2	219147154368	AN(O)	6029	1	2
22002068616	AN(O)	6037	1	2	220677355464	AN(O)	6043	1	2	22115889776	AN(O)	6047	1	2
22174704824	AN(O)	6053	1	2	223317896496	AN(O)	6067	1	2	223308304944	AN(O)	6073	1	2
224644924960	AN(O)	6079	1	2	225276550496	AN(O)	6089	1	2	225977854880	AN(O)	6091	1	2
227092462240	AN(O)	6101	1	2	228435278784	AN(O)	6113	1	2	229333303440	AN(O)	6121	1	2
230459139960	AN(O)	6131	1	2	236864748504	AN(O)	6133	1	2	231815809864	AN(O)	6143	1	2
232712185480	AN(O)	6151	1	2	234086506584	AN(O)	6163	1	2	235227893544	AN(O)	6173	1	2
237783237120	AN(O)	3	4	1	237982201176	AN(O)	6197	1	2	238212882800	AN(O)	6199	1	2
238674121224	AN(O)	6203	1	2	239058765728	AN(O)	6211	1	2	240293814496	AN(O)	6217	1	2
253515942968	AN(O)	6221	1	2	241687940768	AN(O)	6229	1	2	243789224976	AN(O)	6247	1	2
244961850336	AN(O)	6257	1	2	245664727184	AN(O)	6263	1	2	246373956840	AN(O)	6269	1	2
246649834240	AN(O)	6271	1	2	247318369456	AN(O)	6277	1	2	248490841528	AN(O)	7921	1	2
248502275616	AN(O)	6287	1	2	249927942600	AN(O)	6299	1	2	250416484500	AN(O)	6381	1	2
251399051920	AN(O)	6311	1	2	252076550496	AN(O)	6317	1	2	252795613944	AN(O)	6323	1	2
253515942968	AN(O)	6329	1	2	254478589416	AN(O)	6337	1	2	255282029264	AN(O)	6343	1	2
255610942624	AN(O)	6353	1	2	257138119920	AN(O)	6359	1	2	257388817520	AN(O)	6361	1	2
258109826496	AN(O)	6367	1	2	258198571520	ZAN(O)	3	4	1	258844821074	AN(O)	6373	1	2
259571971560	AN(O)	6379	1	2	260794635488	AN(O)	6389	1	2	261179526376	AN(O)	6397	1	2
266732950040	AN(O)	6421	1	2	265475770956	AN(O)	6427	1	2	268221338440	AN(O)	6449	1	2
268460945480	AN(O)	6451	1	2	270714453248	AN(O)	6449	1	2	271216939244	AN(O)	6473	1	2
2722923776160	AN(O)	6481	1	2	273485422280	AN(O)	6491	1	2	277295382240	AN(O)	6521	1	2
278317167360	AN(O)	6529	1	2	280262542776	AN(O)	6547	1	2	281146995800	AN(O)	6551	1	2
281397667824	AN(O)	6553	1	2	282027780768	AN(O)	657	2	1	282856445216	ZAN(O)	27	1	2
282687888944	AN(O)	6563	1	2	283465911448	AN(O)	6569	1	2	283722968840	AN(O)	6571	1	2
283991644880	AN(O)	31	2	3	284580815456	AN(O)	6577	1	2	285628214360	AN(O)	6801	1	2
287365333200	AN(O)	6599	1	2	288411723936	AN(O)	6647	1	2	289986648840	AN(O)	6819	1	2
292358310216	AN(O)	6637	1	2	29447780424	AN(O)	6653	1	2	295275242828	AN(O)	6859	1	2
295541376120	AN(O)	6661	1	2	297141536544	AN(O)	6673	1	2	297943778160	AN(O)	6879	1	2
299284054080	AN(O)	6689	1	2	299522990488	AN(O)	6691	1	2	300976823440	AN(O)	6781	1	2
301167184224	AN(O)	6703	1	2	301976452120	AN(O)	6789	1	2	303328966240	AN(O)	6791	1	2
305229028184	AN(O)	6733	1	2	305773350816	AN(O)	6737	1	2	309052882320	AN(O)	6761	1	2

ORDER	GROUP	Q	N	D	ORDER	GROUP	Q	N	D	ORDER	GROUP	Q	N	D
309327230184	AN(O)	6763	1	2	311527803360	AN(O)	6779	1	2	31180362760	AN(O)	6781	1	2
313185164880	AN(O)	6791	1	2	313361052660	AN(O)	6793	1	2	314848336820	AN(O)	6883	1	2
317633356944	AN(O)	6823	1	2	318193334406	AN(O)	6827	1	2	318472953960	AN(O)	6829	1	2
319032004784	AN(O)	6839	1	2	320153876400	AN(O)	6841	1	2	322465497936	AN(O)	6857	1	2
323252578784	AN(O)	6863	1	2	324101122444	AN(O)	6849	1	2	3243864387440	AN(O)	6871	1	2
326986868584	AN(O)	6883	1	2	328366112088	AN(O)	6899	1	2	329599817736	AN(O)	6907	1	2
338882629120	AN(O)	6911	1	2	338989898288	AN(O)	6917	1	2	335267833176	AN(O)	6947	1	2
335557481480	AN(O)	6949	1	2	337992259120	AN(O)	6959	1	2	337298874728	AN(O)	6961	1	2
338171826096	AN(O)	6967	1	2	33814447948	AN(O)	6971	1	2	339438889856	AN(O)	6977	1	2
348507857184	AN(O)	6983	1	2	341678833280	AN(O)	6991	1	2	342559181976	AN(O)	6997	1	2
343147614000	AN(O)	7001	1	2	344914544184	AN(O)	7012	1	2	345808588880	AN(O)	7019	1	2
344984321656	AN(O)	7027	1	2	348784993288	AN(O)	7039	1	2	349359901464	AN(O)	7043	1	2
351447407136	AN(O)	7057	1	2	352843382448	AN(O)	7069	1	2	354744546968	AN(O)	7079	1	2
358384674624	AN(O)	7103	1	2	359273788928	AN(O)	7109	1	2	361896225440	AN(O)	7121	1	2
362809752056	AN(O)	7127	1	2	362314688560	AN(O)	7129	1	2	365679258880	AN(O)	7151	1	2
366997913520	AN(O)	7159	1	2	36988247056	AN(O)	7177	1	2	371229881016	AN(O)	7187	1	2
372168418864	AN(O)	7193	1	2	374337891336	AN(O)	7207	1	2	374961327728	AN(O)	7211	1	2
375273485384	AN(O)	7213	1	2	376218677280	AN(O)	7219	1	2	377776262760	AN(O)	7229	1	2
379831853816	AN(O)	7237	1	2	379833786664	AN(O)	7243	1	2	388685258976	AN(O)	7247	1	2
381531376824	AN(O)	7253	1	2	386385520964	AN(O)	7283	1	2	388537579776	AN(O)	7297	1	2
390137156136	AN(O)	7307	1	2	39845797320	AN(O)	7389	1	2	392383929840	AN(O)	7321	1	2
393994038360	AN(O)	7331	1	2	398316587764	AN(O)	7333	1	2	396903322200	AN(O)	7349	1	2
39727457260	AN(O)	7351	1	2	400152617648	AN(O)	7369	1	2	404075128864	AN(O)	7393	1	2
407653781128	AN(O)	7411	1	2	408821732296	AN(O)	7417	1	2	410669444304	AN(O)	7433	1	2
413680417480	AN(O)	7451	1	2	414668255336	AN(O)	7457	1	2	414993996120	AN(O)	7459	1	2
416485997784	AN(O)	9409	1	2	418895632856	AN(O)	7467	1	2	418667858160	AN(O)	7481	1	2
419685042816	AN(O)	7487	1	2	420821463680	AN(O)	7489	1	2	421786265900	AN(O)	7499	1	2
423857345336	AN(O)	7507	1	2	424752849984	AN(O)	7517	1	2	425786157144	AN(O)	7523	1	2
428787689380	AN(O)	7529	1	2	428148995616	AN(O)	7537	1	2	428831633880	AN(O)	7541	1	2
429856048776	AN(O)	7547	1	2	430197882680	AN(O)	7549	1	2	431989773200	AN(O)	7559	1	2
432252691920	AN(O)	7561	1	2	434314833944	AN(O)	7573	1	2	435002681456	AN(O)	7577	1	2
436036816704	AN(O)	7583	1	2	437872649880	AN(O)	7589	1	2	437418318488	AN(O)	7591	1	2
439484837624	AN(O)	7603	1	2	440196895936	AN(O)	7607	1	2	442824838648	AN(O)	7649	1	2
445758658480	AN(O)	7639	1	2	444469289860	AN(O)	7643	1	2	447521572880	AN(O)	7649	1	2
448345497600	SUZ	0	0	0	451841191680	AN(O)	7649	1	2	451747322544	AN(O)	7673	1	2
453181794540	AN(O)	7681	1	2	454224884816	AN(O)	7687	1	2	454934832680	AN(O)	7691	1	2
456359185480	AN(O)	7699	1	2	457868182244	AN(O)	7703	1	2	459563443096	AN(O)	7717	1	2
468638234344	AN(O)	7723	1	2	460813585980	GMN	0	0	0	461352341856	AN(O)	7727	1	2
463884582780	AN(O)	7741	1	2	464825139024	AN(O)	7753	1	2	468744819336	AN(O)	7757	1	2
467107038720	AN(O)	7759	1	2	472547182280	AN(O)	7789	1	2	47325498464	AN(O)	7793	1	2
4774681599696	AN(O)	7817	1	2	478762342944	AN(O)	7823	1	2	479864775960	AN(O)	7829	1	2
482074716480	AN(O)	7841	1	2	484291431824	AN(O)	7853	1	2	486886175496	AN(O)	7867	1	2
486891839744	AN(O)	7873	1	2	488745227256	AN(O)	7877	1	2	489117604560	AN(O)	7879	1	2
489862828504	AN(O)	7883	1	2	493228245800	AN(O)	7981	1	2	494358763736	AN(O)	7967	1	2
495786458808	COB	0	0	0	496484924640	AN(O)	7919	1	2	498111499056	AN(O)	7927	1	2
499243427304	AN(O)	7933	1	2	499631182880	AN(O)	29	2	1	499989898816	AN(O)	7937	1	2
502270283480	AN(O)	7949	1	2	502449498400	AN(O)	7951	1	2	504928797384	AN(O)	7963	1	2
516657187664	AN(O)	7993	1	2	513729986720	AN(O)	8089	1	2	514114897328	AN(O)	8011	1	2
515278932896	AN(O)	8017	1	2	519584555880	AN(O)	8039	1	2	528243954824	AN(O)	8053	1	2
523411741328	AN(O)	8059	1	2	528362584448	AN(O)	8049	1	2	527789987368	AN(O)	8081	1	2
528986306416	AN(O)	8087	1	2	529278898880	AN(O)	8089	1	2	530064372264	AN(O)	8093	1	2
531637846208	AN(O)	8101	1	2	533689863520	AN(O)	8111	1	2	534796129996	AN(O)	8117	1	2
535988948744	AN(O)	8123	1	2	540765784276	AN(O)	8147	1	2	543538267128	AN(O)	8161	1	2
544737885296	AN(O)	8167	1	2	548538776840	AN(O)	8171	1	2	547142711168	AN(O)	8179	1	2
549544836480	AN(O)	8191	1	2	548758685964	AN(O)	8192	1	2	553185685128	AN(O)	8209	1	2
555289592480	AN(O)	8219	1	2	559614969440	AN(O)	8221	1	2	557644982160	AN(O)	8231	1	2

ORDER	GROUP	Q	N	D	ORDER	GROUP	Q	N	D	ORDER	GROUP	Q	N	D
550051577104	AN(O)	8233	1	2	550065359816	AN(O)	8237	1	2	500087510464	AN(O)	8243	1	2
554174239184	AN(O)	8263	1	2	555484129888	AN(O)	8269	1	2	556225039144	AN(O)	8273	1	2
569104487616	AN(O)	8287	1	2	569928977808	AN(O)	8291	1	2	578341521464	AN(O)	8293	1	2
571167205776	AN(O)	8297	1	2	574063375920	AN(O)	8311	1	2	575307588996	AN(O)	8317	1	2
577801386900	AN(O)	8329	1	2	582010594624	AN(O)	8353	1	2	584966279784	AN(O)	8363	1	2
586196099040	AN(O)	8369	1	2	587486702556	AN(O)	8377	1	2	5899564488216	AN(O)	8387	1	2
590378559480	AN(O)	8389	1	2	596735015640	AN(O)	8419	1	2	597505974544	AN(O)	8423	1	2
598863929160	AN(O)	8429	1	2	599290318560	AN(O)	8431	1	2	601852965864	AN(O)	8443	1	2
602708722176	AN(O)	8447	1	2	605718467720	AN(O)	8441	1	2	606999979520	AN(O)	8467	1	2
614341767000	AN(O)	8501	1	2	616947053184	AN(O)	8513	1	2	618687996240	AN(O)	8521	1	2
619995850656	AN(O)	8527	1	2	622179701616	AN(O)	8537	1	2	622617806280	AN(O)	8539	1	2
623492478464	AN(O)	8543	1	2	627801709884	AN(O)	8563	1	2	630884019944	AN(O)	8573	1	2
631849578360	AN(O)	8581	1	2	635390583576	AN(O)	8597	1	2	635836137200	AN(O)	8599	1	2
638035001920	AN(O)	8609	1	2	641172891744	AN(O)	8623	1	2	642605579256	AN(O)	8627	1	2
642512233560	AN(O)	8629	1	2	645196510880	AN(O)	8641	1	2	646541447376	AN(O)	8647	1	2
650137081584	AN(O)	8663	1	2	651488873640	AN(O)	8669	1	2	653296178056	AN(O)	8677	1	2
654198876560	AN(O)	8681	1	2	656008378880	AN(O)	8689	1	2	656914779864	AN(O)	8693	1	2
658275947400	AN(O)	8699	1	2	660093760536	AN(O)	8787	1	2	661489318368	AN(O)	8713	1	2
662826750240	AN(O)	8719	1	2	664376138496	G2(O)	7	0	1	665567273160	AN(O)	8731	1	2
666940362816	AN(O)	8737	1	2	667860842880	AN(O)	8741	1	2	669233039976	AN(O)	8747	1	2
670611165024	AN(O)	8753	1	2	672451606320	AN(O)	8761	1	2	676884984360	AN(O)	8779	1	2
675360175904	AN(O)	8783	1	2	682169188824	AN(O)	8803	1	2	683899529136	AN(O)	8807	1	2
685856084440	AN(O)	8819	1	2	686362362840	AN(O)	8821	1	2	688699311360	AN(O)	8831	1	2
690184023416	AN(O)	8837	1	2	690572688880	AN(O)	8839	1	2	692919175200	AN(O)	8849	1	2
695741972520	AN(O)	8861	1	2	696213182784	AN(O)	8863	1	2	697156241496	AN(O)	8867	1	2
701884311216	AN(O)	8887	1	2	703386889064	AN(O)	8893	1	2	710648617544	AN(O)	8923	1	2
711882740160	AN(O)	8929	1	2	712830893384	AN(O)	8933	1	2	714756772580	AN(O)	8941	1	2
751337314880	AN(O)	8951	1	2	75431183320	AN(O)	8959	1	2	75482494696	AN(O)	8967	1	2
721975673640	AN(O)	8971	1	2	75431183320	AN(O)	9163	1	2	755889632920	AN(O)	9169	1	2
730702314336	AN(O)	9007	1	2	731676259320	AN(O)	9011	1	2	732163580184	AN(O)	9013	1	2
736009722360	AN(O)	9029	1	2	739088446880	AN(O)	9041	1	2	73948993464	AN(O)	9043	1	2
740971935600	AN(O)	9049	1	2	743431183320	AN(O)	9059	1	2	745482494696	AN(O)	9067	1	2
751337314880	AN(O)	9091	1	2	75431183320	AN(O)	9163	1	2	755889632920	AN(O)	9169	1	2
760298522956	AN(O)	9127	1	2	76179846504	AN(O)	9133	1	2	762881325216	AN(O)	9137	1	2
766312060800	AN(O)	9151	1	2	76782383736	AN(O)	9157	1	2	768882703120	AN(O)	9161	1	2
771852251544	AN(O)	9173	1	2	773873467560	AN(O)	9181	1	2	775391693916	AN(O)	9187	1	2
778434098400	AN(O)	9199	1	2	779449999224	AN(O)	9203	1	2	780979567120	AN(O)	9209	1	2
784632491640	AN(O)	9221	1	2	785563978856	AN(O)	9227	1	2	786632949816	AN(O)	9239	1	2
790145175280	AN(O)	9241	1	2	793251288336	AN(O)	9257	1	2	798483927656	AN(O)	9277	1	2
799437125760	AN(O)	9281	1	2	799954058904	AN(O)	9283	1	2	802542047464	AN(O)	9293	1	2
807214537920	AN(O)	9311	1	2	809296999440	AN(O)	9319	1	2	810339571944	AN(O)	9323	1	2
813995626416	AN(O)	9337	1	2	815042224480	AN(O)	9341	1	2	815565867264	AN(O)	9343	1	2
817138126200	AN(O)	9349	1	2	82292362440	AN(O)	9371	1	2	824582858556	AN(O)	9377	1	2
820280554880	AN(O)	9391	1	2	829789004376	AN(O)	9397	1	2	831379484424	AN(O)	9463	1	2
834034798584	AN(O)	9413	1	2	835630697640	AN(O)	9419	1	2	836163110440	AN(O)	9421	1	2
838828600560	AN(O)	9431	1	2	839362378304	AN(O)	9433	1	2	840438687816	AN(O)	9437	1	2
840996208080	AN(O)	9439	1	2	846859829720	AN(O)	9461	1	2	847396286304	AN(O)	9463	1	2
848471241196	AN(O)	9467	1	2	850805497344	AN(O)	9473	1	2	851701799768	AN(O)	9479	1	2
852432133120	2AN(O)	31	2	1	854948544280	AN(O)	9491	1	2	856582946978	AN(O)	9497	1	2
860354690320	AN(O)	9511	1	2	863073318240	AN(O)	9521	1	2	866348127600	AN(O)	9533	1	2
867977648280	AN(O)	9539	1	2	870163390776	AN(O)	9547	1	2	871257501960	AN(O)	9551	1	2
881146615416	AN(O)	9587	1	2	885012499280	AN(O)	9601	1	2	888335899784	AN(O)	9613	1	2
889999514840	AN(O)	9619	1	2	89111827744	AN(O)	9623	1	2	892781555680	AN(O)	9629	1	2
893334576968	AN(O)	9631	1	2	896477961864	AN(O)	9643	1	2	898352778880	AN(O)	9649	1	2
901708662120	AN(O)	9661	1	2	906196162956	AN(O)	9677	1	2	906758144160	AN(O)	9679	1	2
909571540080	AN(O)	9689	1	2	911826442176	AN(O)	9697	1	2	918046632240	AN(O)	9719	1	2

