

Partitioning sets of quintuples into designs

MARTIN J. SHARRY

Department of Mathematics
The University of Queensland
St. Lucia, Queensland 4067
AUSTRALIA

ABSTRACT

It is shown that the collection of all $\binom{12}{5}$ quintuples chosen from a set of twelve points can be partitioned into twelve mutually disjoint 4-(11, 5, 1) designs in precisely 24 non-isomorphic ways. The results obtained are then used to show that the collection of all $\binom{13}{6}$ hextuples chosen from a set of thirteen points cannot be partitioned into thirteen mutually disjoint 5-(12, 6, 1) designs.

1. Introduction.

A t -design based on a v -set, X , is a collection of k -subsets (blocks) chosen from X in such a way that each unordered t -subset of X occurs in precisely λ of the blocks. Such a design has parameters $t(v, k, \lambda)$. Two such designs are said to be *disjoint* if and only if they have no block in common.

If the set of all the $\binom{v}{k}$ k -sets chosen from X can be partitioned into mutually disjoint $t(v, k, \lambda)$ designs, then these designs are said to form a *large* set. Whether or not a large set exists, it may be possible to pack the designs neatly by enlarging the set of points on which they are based, sometimes by adjoining just one extra point. Thus, if the set of all the $\binom{v}{k}$ k -sets chosen from X can be partitioned into v mutually disjoint $t(v - 1, k, \lambda)$ designs, each missing a different point of X , then these designs are said to form an *overlarge* set. In this paper, we shall take $X = \{0, 1, \dots, 9, A, B\}$, and label the designs of an overlarge set by their missing elements. Thus the designs in any overlarge set of 4-(11, 5, 1) designs are labelled D_i , for $i = 0, 1, \dots, 9, A, B$.

There are two general constructions for overlarge sets, as follows.

- (i) From any $t(v, k, \lambda)$ design, D , we can form an overlarge set of $(t - 1)(v - 1, k - 1, 1)$ designs by choosing, for each $i = 1, \dots, v$, all the blocks of D containing i , and deleting i from each of them. These $(k - 1)$ -sets form design D_i , and this overlarge set is said to be derived from D . In

general the designs D_i derived from D need not be isomorphic to each other.

- (ii) From any overlarge set of t -($v, k, 1$) designs D_0, D_1, \dots, D_v based on the set $\{0, 1, \dots, v\}$, we can form in the following way $v+1$ distinct overlarge sets of $(t-1)$ -($v-1, k-1, 1$) designs. Starting from some fixed element i , we first discard the design D_i and then, from each design D_j , $j \neq i$, we choose all the blocks containing i , and delete i from each of them to form the design E_j on the set $\{0, 1, \dots, v\} \setminus \{i, j\}$. The designs E_j , $j \neq i$, form an overlarge set of $(t-1)$ -($v-1, k-1, 1$) designs based on the set $\{0, 1, \dots, v\} \setminus \{i\}$; this is a contraction of the original overlarge set. The isomorphism class of the contraction will in general depend on the element i which has been deleted. We also refer to the original overlarge set of designs D_i , $i = 0, 1, \dots, v$, as an extension of the overlarge set of designs E_j . Note that, for $t \geq 2$, every overlarge set of t -designs is an extension of at least one overlarge set of $(t-1)$ -designs, but not every overlarge set of $(t-1)$ -designs is a contraction of an overlarge set of t -designs; see Table 3.

This paper concludes a series of papers [3,4] which establish a catalogue of overlarge sets of the 2-(9, 3, 1) design and its extensions. The reader is referred to [4] for the details of the construction of the 4-(11, 5, 1) and the 5-(12, 6, 1) designs from the 3-(10, 4, 1) design.

2. The overlarge sets of 4-(11, 5, 1) designs.

The set of all $\binom{12}{5}$ quintuples chosen from a 12-set can be partitioned into an overlarge set of 4-(11, 5, 1) designs in precisely 24 non-isomorphic ways. These are given in Table 1, in the form of the 3×3 arrays from which they can be constructed using the extensions, $\alpha_x \beta_y$, shown, and in the form of the blocks of each design. The reader is referred to [4] for details on how to use the 3×3 arrays and pairs of extensions to obtain the 4-(11, 5, 1) designs listed. The first extension listed, α_x , is used to obtain a 3-(10, 4, 1) design and the second, β_y , uses this 3-(10, 4, 1) design and the 3×3 array to obtain a 4-(11, 5, 1) design.

Table 2 lists the automorphism groups of the overlarge sets. Table 3 shows the isomorphism classes of the smaller overlarge sets which arise from the contraction on each element in turn as described in [4]; see also the discussion in [5].

There does not exist an overlarge set of 5-(12, 6, 1) designs. Each 4-(11, 5, 1) design, D_i , can be extended to a 5-(12, 6, 1) design by adjoining the point C to each of its 66 blocks, and then taking as the 66 additional blocks the complements, with respect to the set $\{0, \dots, 9, A, B\} \setminus \{i\}$, of each of the existing blocks. To show that there does not exist an overlarge set of 5-(12, 6, 1) designs it is sufficient to find a pair of blocks in each overlarge set of 4-(11, 5, 1) designs which result in the same block in their associated 5-(12, 6, 1) designs. For overlarge sets 1 through 12 of the 4-(11, 5, 1) designs, D_0 contains the block 12349 and D_1 contains the block 02349, both of which have as their complement the block 5678AB. Similarly, in

overlarge sets 13, 14, 22 and 23, 12349 in D_0 and 01249 in D_3 both give 5678AB ; in overlarge sets 15 through 19, 12349 in D_0 and 01239 in D_4 both give 5678AB ; in overlarge set 20, 12349 in D_0 and 01234 in D_9 both give 5678AB ; in overlarge set 21, 0235A in D_1 and 01235 in D_4 both give 46789B ; and, in overlarge set 24, 12345 in D_0 and 01235 in D_4 both give 6789AB.

3. Computation.

For each of the 21 non-isomorphic overlarge sets of 3-(10, 4, 1) designs previously listed in [4], we calculated each of the available extensions of the underlying 2-(9, 3, 1) designs. For example, if the μ extension had been used to obtain the 3-(10, 4, 1) design D_i then the ν and ξ extensions were used to extend it to a 4-(11, 5, 1) design in two different ways; see [4]. By using a backtrack search and considering each extension of the design D_i only after successfully extending D_0, D_1, \dots, D_{i-1} to a partial overlarge set of 4-(11, 5, 1) designs, we obtained overlarge sets of 4-(11, 5, 1) designs. Isomorphism checking gave precisely 24 non-isomorphic overlarge sets.

Each extension leads to 11 mutually disjoint 4-(11, 5, 1) designs, each missing one of the elements of the original set $\{0, 1, \dots, 9, A\}$, and all containing the element B . A straightforward counting argument shows that the 66 remaining quintuples form a 4-(11, 5, 1) design on the original set. This computation was cross-checked group-theoretically as given in [4].

The software package *nauty* [2] and Cayley [1] were used in the computation, which was carried out on the Pyramid 9810 in the Department of Mathematics at The University of Queensland.

Acknowledgements.

I would like to thank Professor Anne Penfold Street for her assistance in the writing of this paper. The work was sponsored by the Australian Research Grants Scheme.

REFERENCES

1. J.Cannon, "A language for group theory," Department of Pure Mathematics, University of Sydney, Sydney, Australia, 1987.
2. Brendan D. McKay, *nauty User's Guide (Version 1.2)*, Australian National University Computer Science Technical Report TR-CS-87-03 (1987).
3. Martin J. Sharry and Anne Penfold Street, *Partitioning sets of triples into designs II*, Journal of Combinatorial Mathematics and Combinatorial Computing 4 (1988), 53-68.
4. Martin J. Sharry and Anne Penfold Street, *Partitioning sets of quadruples into designs III*, Discrete Mathematics (to appear).
5. Martin J. Sharry and Anne Penfold Street, *Partitioning sets of blocks into designs*, (submitted for publication).

Table 1: The 24 non-isomorphic overlarge sets of 12×4 - $(11, 5, 1)$ designs.
 Design D_i , based on the set $\{0, 1, \dots, 9, A, B\} \setminus \{i\}$, is constructed from the given array in two steps, indicated by the notation $\alpha_x \beta_y$; see section 2 for explanation.

Overlarge Set 1

	123	234	134	124	129	126	125	128	127	120	129	127
	478	579	507	560	365	374	348	364	345	378	435	340
	596	608	689	879	708	809	907	590	096	645	786	685
	$\mu_A \zeta_B$	$\mu_A \nu_B$	$\nu_A \mu_B$	$\nu_A \mu_B$	$\mu_A \zeta_B$	$\mu_A \nu_B$	$\nu_A \zeta_B$	$\nu_A \mu_B$	$\zeta_A \nu_B$	$\zeta_A \mu_B$	$\mu_0 \nu_B$	$\mu_9 \nu_A$
	D_0	D_1	D_2	D_3	D_4	D_5	D_6	D_7	D_8	D_9	D_A	D_B
D_0 :	12349	12358	12367	123AB	12456	1247B	1248A	1257A	1259B	1268B	1269A	
	12789	13457	1346A	1348B	1356B	1359A	13689	1378A	1379B	14589	145AB	
	14678	1469B	1479A	15679	1568A	1578B	167AB	189AB	2345B	2346B	2347A	
	2356A	23579	2369B	2378B	2389A	2457B	2459A	24679	246AB	2489B	2567B	
	25689	258AB	2678A	279AB	34569	3458A	3467B	34789	349AB	35678	357AB	
	3589B	3679A	368AB	4567A	4568B	4579B	4689A	478AB	569AB	5789A	6789B	
D_1 :	02349	0235A	0236B	0237B	02456	0247B	0248A	02579	0258B	0267A	02689	
	029AB	03457	0346A	0348B	0356B	0359B	03679	037AB	0389A	04589	045AB	
	04678	0469B	0479A	0567B	0569A	0578A	068AB	0789B	2345B	2346B	234AB	
	23569	2357B	2368A	2379A	2389B	2457A	2459B	2468B	2469A	24789	25678	
	256AB	2589A	2679B	278AB	3456B	3459A	34689	3478A	3479B	3567A	35789	
	358AB	3678B	369AB	45679	4568A	4578B	467AB	489AB	5689B	579AB	6789A	
D_2 :	01346	0135A	0137B	01389	0145B	01479	0148A	01569	01578	0167A	0168B	
	019AB	03458	0347A	0349B	0356B	03579	03678	0369A	038AB	04567	0459A	
	04689	046AB	0478B	0568A	057AB	0589B	0679B	0789A	13459	13478	134AB	
	13567	1358B	1368A	1369B	1379A	1456B	1457A	1467B	1469A	1489B	156AB	
	1579B	1589A	16789	178AB	3456A	3457B	34679	3468B	3489A	35689	3578A	
	359AB	367AB	3789B	4569B	45789	458AB	4678A	479AB	5678B	5679A	689AB	
D_3 :	01247	01258	0126B	0129A	0145A	01469	0148B	01567	0159B	0168A	01789	
	017AB	0245B	0246A	02489	02569	0257A	02678	0279B	028AB	04568	04579	
	0467B	0478A	049AB	056AB	0578B	0589A	0679A	0689B	12459	12468	124AB	
	1256A	1257B	12679	1278A	1289B	1456B	1457B	1467A	1479B	1489A	15689	
	1579A	158AB	1678B	169AB	24567	2458A	2469B	2478B	2479A	2568B	25789	
	259AB	267AB	2689A	4569A	457AB	4589B	46789	468AB	5678A	5679B	789AB	
D_4 :	01239	01256	0127B	0128A	01357	0136A	0138B	01589	015AB	01678	0169B	
	0179A	0235B	0236B	0237A	0257B	0259A	02679	026AB	0289B	03569	0358A	
	0367B	03789	039AB	0567A	0568B	0579B	0689A	078AB	1235A	1236B	1237B	
	12579	1258B	1267A	12689	129AB	1356B	1359B	13679	137AB	1389A	1567B	
	1569A	1578A	168AB	1789B	23567	23589	2369A	2379B	238AB	2568A	2569B	
	257AB	2678B	2789A	356AB	3578B	3579A	3678A	3689B	56789	589AB	679AB	
D_5 :	0123A	01246	01279	0128B	01347	0136B	0139B	01489	014AB	0167B	0169A	
	0178A	0234B	02367	02389	02478	0249A	0268A	0269B	027AB	03469	0348A	
	036AB	0378B	0379A	0467A	0468B	0479B	06789	089AB	12348	12369	1237B	
	1247A	1249B	12678	1268A	1289A	1346B	1349A	1367A	13789	138AB	14679	
	1468A	1478B	1689B	179AB	2346A	23479	2368B	2378A	239AB	2467B	24689	
	248AB	2679A	2789B	34678	347AB	3489B	3679B	3689A	469AB	4789A	678AB	
D_6 :	0123B	01245	0127A	01289	0134A	0135B	01379	01478	0149B	0157B	0159A	
	018AB	0234B	02357	0239A	02479	024AB	0258A	0259B	0278B	03459	0347B	
	035AB	0378A	0389B	0457A	0458B	0489A	05789	079AB	12347	12359	1238A	
	1248B	1249A	12578	125AB	1279B	1345B	13489	1357A	1378B	139AB	14579	
	1458A	147AB	1589B	1789A	2345A	2349B	2358B	23789	237AB	24578	24589	
	2478A	2579A	289AB	34578	3479A	3489B	3579B	3589A	459AB	4789B	578AB	
D_7 :	01238	0124A	0125B	01269	0134B	01356	0139A	01459	01468	0158A	016AB	
	0189B	02346	02359	023AB	02458	0249B	0256A	0268B	0289A	0345A	03489	
	0358B	0368A	0369B	0456B	0469A	048AB	05689	059AB	12345	1236A	1239B	
	1246B	12489	12568	1259A	128AB	13469	1348A	13589	135AB	1368B	1456A	
	1458B	149AB	1569B	1689A	2348B	2349A	2356B	2358A	23689	24569	245AB	
	2468A	2589B	269AB	34568	3459B	346AB	3569A	389AB	4589A	4689B	568AB	

D_8 : 01237 0124B 01259 0126A 01345 01369 013AB 01467 0149A 0156B 0157A
 0179B 0234A 02356 0239B 02457 02469 025AB 0267B 0279A 0346B 03479
 0357B 0359A 0367A 0456A 0459B 047AB 05679 069AB 12346 1235B 1239A
 1245A 12479 12567 1269B 127AB 1347A 1349B 1356A 13579 1367B 14569
 1457B 146AB 159AB 1679A 23459 2347B 2357A 23679 236AB 2456B 2467A
 249AB 2569A 2579B 34567 345AB 3469A 3569B 379AB 4579A 4679B 567AB
 D_9 : 01234 01257 01268 012AB 0135B 01367 0138A 01458 0146B 0147A 0156A
 0178B 02358 0236A 0237B 0245A 02467 0248B 0256B 0278A 03456 03478
 034AB 0357A 0368B 0457B 0468A 0567B 058AB 067AB 12356 1237A 1238B
 1245B 1246A 12478 1258A 1267B 1345A 1346B 1347B 13578 136AB 14567
 148AB 1568B 157AB 1678A 23457 2346B 2348A 235AB 23678 2456B 247AB
 2567A 2578B 268AB 3458B 3467A 3567B 3568A 378AB 456AB 4578A 4678B
 D_A : 01235 01248 01267 0129B 01349 0136B 01378 01456 0147B 01579 0158B
 01689 02347 02369 0238B 02459 0246B 0256B 0257B 02789 0345B 0346B
 03567 03589 0379B 0457B 04679 0489B 0569B 0678B 1234B 1236B 1237B
 12457 12469 1256B 12589 1278B 1345B 13467 13569 1357B 1389B 1459B
 1468B 14789 1567B 1679B 23456 23489 2357B 2359B 2367B 2458B 2467B
 2479B 25679 2689B 34579 3469B 3478B 3568B 36789 4567B 45689 5789B
 D_B : 01236 01249 0125A 0127B 0134B 01359 0137A 01457 0146A 0156B 01679
 0189A 02345 02379 0238A 0246B 0247A 02567 02589 0269A 03467 0349A
 0356A 0357B 03689 04569 0458A 04789 0579A 0678A 1234A 12357 1238B
 12458 12467 12569 1268A 1279A 13456 13479 1358A 13678 1369A 1459A
 14689 1478A 1567A 15789 23469 2347B 2356B 2359A 2367A 2456A 24579
 2489A 2578A 26789 3457A 34589 3468A 35679 3789A 45678 4679A 5689A

Overlarge Set 2

123	234	134	124	129	126	125	128	127	120	129	124
478	579	507	560	365	374	348	364	345	378	435	706
596	608	689	879	708	809	907	590	096	645	786	835
$\mu_A \zeta_B$	$\mu_A \nu_B$	$\nu_A \mu_B$	$\nu_A \zeta_B$	$\mu_A \zeta_B$	$\mu_A \nu_B$	$\nu_A \mu_B$	$\nu_A \nu_B$	$\zeta_A \nu_B$	$\zeta_A \mu_B$	$\mu_0 \nu_B$	$\mu_0 \zeta_A$
D_0	D_1	D_2	D_3	D_4	D_5	D_6	D_7	D_8	D_9	D_A	D_B

D_0 : 12349 12358 12367 123AB 12456 1247B 1248A 1257A 1259B 1268B 1269A
 12789 13457 1346A 1348B 1356B 1359A 13689 1378A 1379B 14589 145AB
 14678 1469B 1479A 15679 1568A 1578B 167AB 189AB 2345B 2346B 2347A
 2356A 23579 2369B 2378B 2389A 2457B 2459A 24679 246AB 2489B 2567B
 25689 258AB 2678A 279AB 34569 3458A 3467B 34789 349AB 35678 357AB
 3589B 3679A 368AB 4567A 4568B 4579B 4689A 478AB 569AB 5789A 6789B
 D_1 : 02349 0235A 0236B 0237B 02456 0247B 0248A 02579 0258B 0267A 02689
 029AB 03457 0346A 0348B 0356B 0359B 03679 037AB 0389A 04589 045AB
 04678 0469B 0479A 0567B 0569A 0578A 068AB 0789B 23458 23467 234AB
 23569 2357B 2368A 2379A 2389B 2457A 2459B 2468B 2469A 24789 25678
 256AB 2589A 2679B 278AB 3456B 3459A 34689 3478A 3479B 3567A 35789
 358AB 3678B 369AB 45679 4568A 4578B 467AB 489AB 5689B 579AB 6789A
 D_2 : 01346 0135A 0137B 01389 0145B 01479 0148A 01569 01578 0167A 0168B
 019AB 03458 0347A 0349B 0356B 0357B 03678 0369A 038AB 04567 0459A
 04689 046AB 0478B 0568A 057AB 0589B 0679B 0789A 13459 13478 134AB
 13567 1358B 1368A 1369B 1379A 1456B 1457A 1467B 1469A 1489B 156AB
 1579B 1589A 16789 178AB 3456A 3457B 34679 3468B 3489A 35689 3578A
 359AB 367AB 3789B 4569B 45789 458AB 4678A 479AB 5678B 5679A 689AB
 D_3 : 01249 0125A 0126B 0127B 01457 0146A 0146B 01568 0159B 01679 017AB
 0189A 0245B 0246B 0247A 02567 02589 0269A 0279B 028AB 04569 0458A
 0467B 04789 049AB 056AB 0578B 0579A 0678A 0689B 12458 12467 124AB
 12569 1257B 1268A 1279A 1289B 1456B 1459A 14689 1478A 1479B 1567A
 15789 158AB 1678B 169AB 2456A 24579 2469B 2478B 2489A 2568B 2578A
 259AB 26789 267AB 45678 457AB 4589B 4679A 468AB 5679B 5689A 789AB
 D_4 : 01239 01256 0127B 0128A 01357 0136A 0138B 01589 015AB 01678 0169B
 0179A 0235B 02368 0237A 02578 0259A 02679 026AB 0289B 03569 0358A
 0367B 03789 039AB 0567A 0568B 0579B 0689A 078AB 1235A 1236B 1237B
 12579 1258B 1267A 12689 129AB 1356B 1359B 13679 137AB 1389A 1567B
 1569A 1578A 168AB 1789B 23567 23589 2369A 2379B 238AB 2568A 2569B
 257AB 2678B 2789A 356AB 3578B 3579A 3678A 3689B 56789 589AB 679AB

D_5 : 0123A 01246 01279 0128B 01347 01368 0139B 01489 014AB 0167B 0169A
 0178A 0234B 02367 02389 02478 0249A 0268A 0269B 027AB 03469 0348A
 036AB 0378B 0379A 0467A 0468B 0479B 06789 089AB 12348 12369 1237B
 1247A 1249B 12678 126AB 1289A 1346B 1349A 1367A 13789 138AB 14679
 1468A 1478B 1689B 179AB 2346A 23479 2368B 2378A 239AB 2467B 24689
 248AB 2679A 2789B 34678 347AB 3489B 3679B 3689A 469AB 4789A 678AB
 D_6 : 0123B 01247 01258 0129A 01348 01359 0137A 0145A 0149B 0157B 01789
 018AB 02345 02379 0238A 02489 024AB 0257A 0259B 0278B 0347B 0349A
 0357B 035AB 0389B 04579 0458B 0478A 0589A 079AB 1234A 12357 12389
 12459 1248B 125AB 1278A 1279B 1345B 13479 1358A 1378B 139AB 14578
 147AB 1489A 1579A 1589B 23478 2349B 2358B 2359A 237AB 2457B 2458A
 2479A 25789 289AB 3457A 34589 348AB 3579B 3789A 459AB 4789B 578AB
 D_7 : 01238 0124A 0125B 01269 0134B 01356 0139A 01459 01468 0158A 016AB
 0189B 02346 02359 023AB 02458 0249B 0256A 0268B 0289A 0345A 03489
 0358B 0368A 0369B 0456B 0469A 048AB 05689 059AB 12345 1236A 1239B
 1246B 12489 12568 1259A 128AB 13469 1348A 13589 135AB 1368B 1456A
 1458B 149AB 1569B 1689A 2348B 2349A 2356B 2358A 23689 24569 245AB
 2468A 2589B 269AB 3456B 3459B 346AB 3569A 389AB 4589A 4689B 568AB
 D_8 : 01237 0124B 01259 0126A 01345 01369 013AB 01467 0149A 0156B 0157A
 0179B 0234A 02356 0239B 02457 02469 025AB 0267B 0279A 0346B 03479
 0357B 0359A 0367A 0456A 0459B 047AB 05679 069AB 12346 1235B 1239A
 1245A 12479 12567 1269B 127AB 1347A 1349B 1356A 13579 1367B 14569
 1457B 146AB 159AB 1679A 23459 2347B 2357A 23679 236AB 2456B 2467A
 249AB 2569A 2579B 34567 345AB 3469A 3569B 379AB 4579A 4679B 567AB
 D_9 : 01234 01257 01268 012AB 0135B 01367 0138A 01458 0146B 0147A 0156A
 0178B 02358 0236A 0237B 0245A 02467 0248B 0256B 0278A 03456 03478
 034AB 0357A 0368B 0457B 0468A 05678 058AB 067AB 12356 1237A 1238B
 1245B 1246A 12478 1258A 1267B 1345A 1346B 1347B 13578 136AB 14567
 148AB 1568B 157AB 1678A 23457 2346B 2348A 235AB 23678 24568 247AB
 2567A 2578B 268AB 3458B 3467A 3567B 3568A 378AB 456AB 4578A 4678B
 D_A : 01235 01248 01267 0129B 01349 0136B 0137B 01456 0147B 01579 0158B
 0168B 02347 02369 0238B 02459 0246B 0256B 0257B 02789 0345B 03468
 03567 03589 0379B 04578 04679 0489B 0569B 0678B 1234B 12368 12379
 12457 12469 12568 12589 1278B 13458 13467 13569 1357B 1389B 1459B
 1468B 14789 1567B 1679B 23456 2348B 23578 2359B 2367B 2458B 24678
 2479B 25679 2689B 34579 3469B 3478B 3568B 36789 4567B 45689 5789B
 D_B : 01236 01245 0127A 01289 0134A 01358 01379 01469 01478 01567 0159A
 0168A 02348 02357 0239A 0246A 02479 02569 0258A 02678 03459 03467
 0356A 03689 0378A 0456B 0457A 0489A 05789 0679A 12347 12359 1238A
 12468 1249A 1256A 1257B 12679 13456 13489 1357A 13678 1369A 14579
 1458A 1467A 15689 1789A 2345A 23469 2356B 2367A 23789 24567 24589
 2478A 2579A 2689A 34578 3468A 3479A 35679 3589A 4569A 46789 5678A

Overlarge Set 3

123	234	134	124	129	126	125	128	127	120	129	120
478	579	507	560	365	374	348	364	345	378	435	564
596	608	689	879	708	809	907	590	096	645	786	783
$\mu_{A\bar{B}}$	$\mu_{A'V\bar{B}}$	$\nu_{A'\bar{B}}$	$\nu_{A\bar{B}}$	$\mu_{A\bar{C}B}$	$\mu_{A'V\bar{B}}$	$\nu_{A\bar{C}B}$	$\nu_{A'\bar{B}}$	$\xi_{A\bar{V}B}$	$\xi_{A'\bar{B}}$	$\mu_{0V\bar{B}}$	$\mu_{9\bar{C}A}$
D_0	D_1	D_2	D_3	D_4	D_5	D_6	D_7	D_8	D_9	D_A	D_B

D_0 : 12349 12358 12367 123AB 12456 1247B 1248A 1257A 1259B 1268B 1269A
 12789 13457 1346A 1348B 1356B 1359A 13689 1378A 1379B 14589 145AB
 14678 1469B 1479A 15679 1568A 1578B 167AB 189AB 2345B 2346B 2347A
 2356A 23579 2369B 2378B 2389A 2457B 2459A 24679 246AB 2489B 2567B
 25689 258AB 2678A 279AB 34569 3458A 3467B 34789 349AB 35678 357AB
 3589B 3679A 368AB 4567A 4568B 4579B 4689A 478AB 569AB 5789A 6789B
 D_1 : 02349 0235A 0236B 02378 02456 0247B 0248A 02579 0258B 0267A 02689
 029AB 03457 0346A 0348B 03568 0359B 03679 037AB 0389A 04589 045AB
 04678 0469B 0479A 0567B 0569A 0578A 068AB 0789B 23458 23467 234AB
 23569 2357B 2368A 2379A 2389B 2457A 2459B 2468B 2469A 24789 25678
 256AB 2589A 2679B 278AB 3456B 3459A 34689 3478A 3479B 3567A 35789
 358AB 3678B 369AB 45679 4568A 4578B 467AB 489AB 5689B 579AB 6789A

D_2 : 01346 0135A 0137B 01389 0145B 01479 0148A 01569 01578 0167A 0168B
 019AB 03458 0347A 0349B 0356B 03579 03678 0369A 038AB 04567 0459A
 04689 046AB 0478B 0568A 057AB 0589B 0679B 0789A 13459 13478 134AB
 13567 1358B 1368A 1369B 1379A 14568 1457A 1467B 1469A 1489B 156AB
 1579B 1589A 16789 178AB 3456A 3457B 34679 3468B 3489A 35689 3578A
 359AB 367AB 3789B 4569B 45789 458AB 4678A 479AB 5678B 5679A 689AB
 D_3 : 01249 0125A 0126B 01278 01457 0146A 0148B 01568 0159B 01679 017AB
 0189A 0245B 0246B 0247A 02567 02589 0269A 0279B 028AB 04569 0458A
 0467B 04789 049AB 056AB 0578B 0579A 0678A 0689B 12458 12467 124AB
 12569 1257B 1268A 1279A 1289B 1456B 1459A 14689 1478A 1479B 1567A
 15789 158AB 1678B 169AB 2456A 24579 2469B 2478B 2489A 2568B 2578A
 259AB 26789 267AB 45678 457AB 4589B 4679A 468AB 5679B 5689A 789AB
 D_4 : 01239 01256 0127B 0128A 01357 0136A 0138B 01589 015AB 01678 0169B
 0179A 0235B 0236B 0237A 02578 0259A 02679 026AB 0289B 03569 0358A
 0367B 03789 039AB 0567A 0568B 0579B 0689A 078AB 1235A 1236B 1237B
 12579 1258B 1267A 12689 129AB 1356B 1359B 13679 137AB 1389A 1567B
 1569A 1578A 168AB 1789B 23567 23589 2369A 2379B 238AB 2568A 2569B
 257AB 2678B 2789A 356AB 3578B 3579A 3678A 3689B 56789 589AB 579AB
 D_5 : 0123A 01246 01279 0128B 01347 01368 0139B 01489 014AB 0167B 0169A
 0178A 0234B 02367 02389 02478 0249A 0268A 0269B 027AB 03469 0348A
 036AB 0378B 0379A 0467A 0468B 0479B 06789 089AB 1234B 12369 1237B
 1247A 1249B 12678 126AB 1289A 1346B 1349A 1367A 13789 138AB 14679
 1468A 1478B 1689B 179AB 2346A 23479 2368B 2378A 239AB 2467B 24689
 248AB 2679A 2789B 34678 347AB 3489B 3679B 3689A 469AB 4789A 678AB
 D_6 : 0123B 01245 0127A 01289 0134A 0135B 0137B 01478 0149B 0157B 0159A
 018AB 0234B 02357 0239A 02479 024AB 0258A 0259B 0278B 03459 0347B
 035AB 0378A 0389B 0457A 0458B 0489A 05789 079AB 12347 12359 1238A
 1248B 1249A 12578 125AB 1279B 1345B 13489 1357A 1378B 139AB 14579
 1458A 147AB 1589B 1789A 2345A 2349B 2358B 23789 237AB 2457B 24589
 2478A 2579A 289AB 34578 3479A 348AB 3579B 3589A 459AB 4789B 578AB
 D_7 : 0123B 0124A 0125B 01269 0134B 01356 0139A 01459 01468 0158A 016AB
 0189B 02346 02359 023AB 02458 0249B 0256A 0268B 0289A 0345A 03489
 0358B 0368A 0369B 0456B 0469A 048AB 05689 059AB 12345 1236A 1239B
 1246B 12489 12568 1259A 128AB 13469 1348A 13589 135AB 1368B 1456A
 1458B 149AB 1569B 1689A 2348B 2349A 2356B 2358A 23689 24569 245AB
 2468A 2589B 269AB 34568 3459B 346AB 3569A 389AB 4589A 4689B 568AB
 D_8 : 01237 0124B 01259 0126A 01345 01369 013AB 01467 0149A 0156B 0157A
 0179B 0234A 02356 0239B 02457 02469 025AB 0267B 0279A 0346B 03479
 0357B 0359A 0367A 0456A 0459B 047AB 05679 069AB 12346 1235B 1239A
 1245A 12479 12567 1269B 127AB 1347A 1349B 1356A 13579 1367B 14569
 1457B 146AB 159AB 1679A 23459 2347B 2357A 23679 236AB 2456B 2467A
 249AB 2569A 2579B 34567 345AB 3469A 3569B 379AB 4579A 4679B 567AB
 D_9 : 01234 01257 01268 012AB 0135B 01367 0138A 01458 0146B 0147A 0156A
 0178B 02358 0236A 0237B 0245A 02467 0248B 0256B 0278A 03456 03478
 034AB 0357A 0368B 0457B 0468A 05678 058AB 067AB 12356 1237A 1238B
 1245B 1246A 12478 1258A 1267B 1345A 1346B 1347B 1357B 136AB 14567
 148AB 1568B 157AB 1678A 23457 2346B 2348A 235AB 23678 24568 247AB
 2567A 2578B 268AB 3458B 3467A 3567B 3568A 378AB 456AB 4578A 4678B
 D_A : 01235 01248 01267 0129B 01349 0136B 0137B 01456 0147B 01579 0158B
 01689 02347 02369 0238B 02459 0246B 0256B 0257B 02789 0345B 0346B
 03567 03589 0379B 0457B 04679 0489B 0569B 0678B 1234B 1236B 1237B
 1245T 12469 1256B 12589 1278B 1345B 13467 13569 1357B 1389B 1459B
 1468B 14789 1567B 1679B 23456 23489 23578 2359B 2367B 2458B 2467B
 2479B 25679 2689B 34579 3469B 3478B 3568B 36789 4567B 45689 5789B
 D_B : 01236 01247 01258 0129A 01348 01359 0137A 0145A 01469 01567 0168A
 01789 02345 02379 0238A 0246A 02489 02569 0257A 0267B 03467 0349A
 0356A 0357B 0368B 0456B 04579 0478A 0589A 0679A 1234A 12357 12389
 12459 12468 1256A 12679 1278A 13456 13479 1358A 1367B 1369A 14578
 1467A 1489A 15689 1579A 23469 2347B 23568 2359A 2367A 24567 2458A
 2479A 25789 2689A 3457A 34589 3468A 35679 3789A 4569A 46789 5678A

Overlarge Set 4

	123	234	134	124	129	126	125	128	127	120	129	128
	478	579	507	560	365	374	348	364	345	378	435	654
	596	608	689	879	708	809	907	590	096	645	786	037
	$\mu_A \xi_B$	$\mu_A \nu_B$	$\nu_A \mu_B$	$\nu_A \xi_B$	$\mu_A \xi_B$	$\mu_A \xi_B$	$\nu_A \xi_B$	$\nu_A \mu_B$	$\xi_A \nu_B$	$\xi_A \mu_B$	$\mu_0 \nu_B$	$\mu_9 \nu_A$
	D_0	D_1	D_2	D_3	D_4	D_5	D_6	D_7	D_8	D_9	D_A	D_B
D_0 :	12349	12358	12367	123AB	12456	1247B	1248A	1257A	1259B	1268B	1269A	
	12789	13457	1346A	1348B	1356B	1359A	13689	1378A	1379B	14589	145AB	
	14678	1469B	1479A	15679	1568A	1578B	167AB	189AB	2345B	2346B	2347A	
	2356A	23579	2369B	2378B	2389A	2457B	2459A	24679	246AB	2489B	2567B	
	25689	258AB	2678A	279AB	34569	3458A	3467B	34789	349AB	35678	357AB	
	3589B	3679A	368AB	4567A	4568B	4579B	4689A	478AB	569AB	5789A	6789B	
D_1 :	02349	0235A	0236B	0237B	02456	0247B	0248A	02579	0258B	0267A	02689	
	029AB	03457	0346A	0348B	03568	0359B	03679	037AB	0389A	04589	045AB	
	04678	0469B	0479A	0567B	0569A	0578A	068AB	0789B	23458	23467	234AB	
	23569	2357B	2368A	2379A	2389B	2457A	2459B	2468B	2469A	24789	25678	
	256AB	2589A	2679B	278AB	3456B	3459A	34689	3478A	3479B	3567A	35789	
	358AB	3678B	369AB	45679	4568A	4578B	467AB	489AB	5689B	579AB	6789A	
D_2 :	01346	0135A	0137B	01389	0145B	01479	0148A	01569	01578	0167A	0168B	
	019AB	03458	0347A	0349B	0356B	03579	03678	0369A	038AB	04567	0459A	
	04689	046AB	0478B	0568A	057AB	0589B	0679B	0789A	13459	13478	134AB	
	13567	1358B	1368A	1369B	1379A	14568	1457A	1467B	1469A	1489B	156AB	
	1579B	1589A	16789	178AB	3456A	3457B	34679	3468B	3489A	35689	3578A	
	359AB	367AB	3789B	4569B	45789	458AB	4678A	479AB	5678B	5679A	689AB	
D_3 :	01249	0125A	0126B	01278	01457	0146A	0148B	01568	0159B	01679	017AB	
	0189A	0245B	0246B	0247A	02567	02589	0269A	0279B	028AB	04569	0458A	
	0467B	04789	049AB	056AB	0578B	0579A	0678A	0689B	12458	12467	124AB	
	12569	1257B	1268A	1279A	1289B	1456B	1459A	14689	1478A	1479B	1567A	
	15789	158AB	1678B	169AB	2456A	24579	2469B	2478B	2489A	2568B	2578A	
	259AB	26789	267AB	45678	457AB	4589B	4679A	468AB	5679B	5689A	789AB	
D_4 :	01239	01256	0127B	0128A	01357	0136A	0138B	01589	015AB	01678	0169B	
	0179A	0235B	0236B	0237A	02578	0259A	02679	026AB	0289B	03569	0358A	
	0367B	03789	039AB	0567A	0568B	0579B	0689A	078AB	1235A	1236B	1237B	
	12579	1258B	1267A	12689	129AB	1356B	1359B	13679	137AB	1389A	1567B	
	1569A	1578A	168AB	1789B	23567	23589	2369A	2379B	238AB	2568A	2569B	
	257AB	2678B	2789A	356AB	3578B	3579A	3678A	3689B	56789	589AB	679AB	
D_5 :	01236	01247	0128B	0129A	01348	0137A	0139B	01469	014AB	0167B	0168A	
	01789	0234B	02379	0238A	0246A	02489	02678	0269B	027AB	03467	0349A	
	03689	036AB	0378B	0468B	0478A	0479B	0679A	089AB	1234A	1237B	12389	
	12468	1249B	12679	126AB	1278A	1346B	13479	13678	1369A	138AB	1467A	
	1478B	1489A	1689B	179AB	23469	23478	2367A	2368B	239AB	2467B	2479A	
	248AB	2689A	2789B	3468A	347AB	3489B	3679B	3789A	46789	469AB	678AB	
D_6 :	0123B	01245	0127A	01289	0134A	01358	01379	01478	0149B	0157B	0159A	
	018AB	02348	02357	0239A	02479	024AB	0258A	0259B	0278B	03459	0347B	
	035AB	0378A	0389B	0457A	0458B	0489A	05789	079AB	12347	12359	1238A	
	1248B	1249A	12578	125AB	1279A	1345B	13489	1357A	1378B	139AB	14579	
	1458A	147AB	1589B	1789A	2345A	2349B	2358B	23789	237AB	2457B	24589	
	2478A	2579A	289AB	34578	3479A	348AB	3579B	3589A	459AB	4789B	578AB	
D_7 :	01238	0124A	0125B	01269	0134B	01356	0139A	01459	01468	0158A	016AB	
	0189B	02346	02359	023AB	02458	0249B	0256A	0268B	0289A	0345A	03489	
	0358B	0368A	0369B	0456B	0469A	048AB	05689	059AB	12345	1236A	1239B	
	1246B	12489	12568	1259A	128AB	13469	1348A	13589	135AB	1368B	1456A	
	1458B	149AB	1569B	1689A	2348B	2349A	2356B	2358A	23689	24569	245AB	
	2468A	2589B	269AB	34568	3459B	346AB	3569A	389AB	4589A	4689B	568AB	
D_8 :	01237	0124B	01259	0126A	01345	01369	013AB	01467	0149A	0156B	0157A	
	0179B	0234A	02356	0239B	02457	02469	025AB	02678	0279A	0346B	03479	
	0357B	0359A	0367A	0456A	0459B	047AB	05679	069AB	12346	1235B	1239A	
	1245A	12479	12567	1269B	127AB	1347A	1349B	1356A	13579	1367B	14569	
	1457B	146AB	159AB	1679A	23459	2347B	2357A	23679	236AB	2456B	2467A	
	249AB	2569A	2579B	34567	345AB	3469A	3569B	379AB	4579A	4679B	567AB	

D_9 : 01234 01257 01268 012AB 0135B 01367 0138A 01458 0146B 0147A 0156A
 0178B 02358 0236A 0237B 0245A 02467 0248B 0256B 0278A 03456 03478
 034AB 0357A 0368B 0457B 0468A 05678 058AB 067AB 12356 1237A 1238B
 1245B 1246A 12478 1258A 1267B 1345A 1346B 1347B 13578 136AB 14567
 148AB 1568B 157AB 1678A 23457 2346B 2348A 235AB 23678 24568 247AB
 2567A 2578B 268AB 3458B 3467A 3567B 3568A 378AB 456AB 4578A 4678B
 D_A : 01235 01248 01267 0129B 01349 0136B 01378 01456 0147B 01579 0158B
 0168B 02347 02369 0238B 02459 0246B 02568 0257B 02789 0345B 03468
 03567 03589 0379B 04578 04679 0489B 0569B 0678B 1234B 1236B 1237B
 1245T 12469 1256B 12589 1278B 1345B 13467 13569 1357B 1389B 1459B
 1468B 14789 15678 1679B 23456 23489 23578 2359B 2367B 2458B 24678
 2479B 25679 2689B 34579 3469B 3478B 3568B 36789 4567B 45689 5789B
 D_B : 0123A 01246 01258 01279 01347 01359 01368 0145A 01489 01567 0169A
 0178A 02345 02367 02389 02478 0249A 02569 0257A 0268A 03469 0348A
 0356A 03578 0379A 04568 04579 0467A 0589A 06789 1234B 12357 12369
 12459 1247A 1256A 12678 1289A 13456 1349A 1358A 1367A 13789 14578
 14679 1468A 15689 1579A 2346A 23479 23568 2359A 2378A 24567 2458A
 24689 25789 2679A 3457A 34589 34678 35679 3689A 4569A 4789A 5678A

Overlarge Set 5

123	234	134	124	129	126	125	128	127	120	126	120
478	579	507	560	365	374	348	364	345	378	349	564
596	608	689	879	708	809	907	590	096	645	758	783
$\mu_A \xi_B$	$\mu_A \nu_B$	$\xi_A \mu_B$	$\mu_A \xi_B$	$\mu_A \xi_B$	$\mu_A \nu_B$	$\nu_A \xi_B$	$\nu_A \mu_B$	$\xi_A \nu_B$	$\xi_A \mu_B$	$\mu_0 \nu_B$	$\mu_9 \xi_A$
D_0	D_1	D_2	D_3	D_4	D_5	D_6	D_7	D_8	D_9	D_A	D_B
D_0 :	12349 12358 12367 123AB 12456 1247B 1248A 1257A 1259B 1268B 1269A 12789 13457 1346A 1348B 1356B 1359A 13689 1378A 1379B 14589 145AB 14678 1469B 1479A 15679 1568A 1578B 167AB 189AB 2345B 2346B 2347A 2356A 23579 2369B 2378B 2389A 24578 2459A 24679 246AB 2489B 2567B 25689 258AB 2678A 279AB 34569 3458A 3467B 34789 349AB 35678 357AB 3589B 3679A 368AB 4567A 4568B 4579B 4689A 478AB 569AB 5789A 6789B										
D_1 :	02349 0235A 0236B 02378 02456 0247B 0248A 02579 0258B 0267A 02689 029AB 03457 0346A 0348B 03568 0359B 03679 037AB 0389A 04589 045AB 04678 0469B 0479A 0567B 0569A 0578A 068AB 0789B 23458 23467 234AB 23569 2357B 2368A 2379A 2389B 2457A 2459B 2468B 2469A 24789 25678 256AB 2589A 2679B 278AB 3456B 3459A 34689 3478A 3479B 3567A 35789 358AB 3678B 369AB 45679 4568B 4578B 467AB 489AB 5689B 579AB 6789A										
D_2 :	01349 0135A 0136B 01378 01456 0147B 0148A 01579 0158B 0167A 01689 019AB 0345B 0346B 0347A 03567 03589 0369A 0379B 038AB 04578 0459A 04679 046AB 0489B 0568A 0569B 057AB 0678B 0789A 13458 13467 134AB 13569 1357B 1368A 1379A 1389B 1457A 1459B 1468B 1469A 14789 15678 156AB 1589A 1679B 178AB 3456A 34579 3469B 3478B 3489A 3568B 3578A 359AB 36789 367AB 4567B 45689 458AB 4678A 479AB 5679A 5789B 689AB										
D_3 :	01248 0125A 01267 0129B 0145B 0146A 01479 01569 01578 0168B 017AB 0189A 02459 0246B 0247A 0256B 0257B 0269A 0278B 028AB 04567 0458A 04689 0478B 049AB 056AB 0579A 0589B 0678A 0679B 12457 12469 124AB 1256B 12589 1268A 1278B 1279A 1456B 1459A 1467B 1478A 1489B 1567A 1579B 158AB 16789 169AB 2456A 2458B 24678 2479B 2489A 25679 2578A 259AB 267AB 2689B 4569B 45789 457AB 4679A 468AB 5678B 5689A 789AB										
D_4 :	01239 01256 0127B 0128A 01357 0136A 0138B 01589 015AB 01678 0169B 0179A 0235B 0236B 0237A 0257B 0259A 02679 026AB 0289B 03569 0358A 0367B 03789 039AB 0567A 0568B 0579B 0689A 078AB 1235A 1236B 1237B 12579 1258B 1267A 12689 129AB 1356B 1359B 13679 137AB 1389A 1567B 1569A 1578A 168AB 1789B 23567 23589 2369A 2379B 238AB 2568A 2569B 257AB 2678B 2789A 356AB 3578B 3579A 3678A 3689B 56789 589AB 679AB										
D_5 :	0123A 01246 01279 0128B 01347 01368 0139B 01489 014AB 0167B 0169A 0178A 0234B 02367 02389 02478 0249A 0268A 0269B 027AB 03469 0348A 036AB 0378B 0379A 0467A 0468B 0479B 06789 089AB 1234B 12369 1237B 1247A 1249B 1267B 126AB 1289A 1346B 1349A 1367A 13789 138AB 14679 1468A 1478B 1689B 179AB 2346A 23479 2368B 2378A 239AB 2467B 24689 248AB 2679A 2789B 34678 347AB 3489B 3679B 3689A 469AB 4789A 678AB										

D_6 : 0123B 01245 0127A 01289 0134A 01358 01379 01478 0149B 0157B 0159A
 018AB 0234B 02357 0239A 02479 024AB 0258A 0259B 0278B 03459 0347B
 035AB 0378A 0389B 0457A 0458B 0489A 05789 079AB 12347 12359 1238A
 1248B 1249A 1257B 125AB 1279B 1345B 13489 1357A 1378B 139AB 14579
 1458A 147AB 1589B 1789A 2345A 2349B 2358B 23789 237AB 2457B 24589
 2478A 2579A 289AB 3457B 3479A 348AB 3579B 3589A 459AB 4789B 578AB
 D_7 : 01238 0124A 0125B 01269 0134B 01356 0139A 01459 01468 0158A 016AB
 0189B 02346 02359 023AB 02458 0249B 0256A 0268B 0289A 0345A 03489
 0358B 0368A 0369B 0456B 0469A 048AB 05689 059AB 12345 1236A 1239B
 1246B 12489 1256B 1259A 128AB 13469 1348A 13589 135AB 1368B 1456A
 1458B 149AB 1569B 1689A 2348B 2349A 2356B 2358A 23689 24569 245AB
 2468A 2589B 269AB 3456B 3459B 346AB 3569A 389AB 4589A 4689B 568AB
 D_8 : 01237 0124B 01259 0126A 01345 01369 013AB 01467 0149A 0156B 0157A
 0179B 0234A 02356 0239B 02457 02469 025AB 0267B 0279A 0346B 03479
 0357B 0359A 0367A 0456A 0459B 047AB 05679 069AB 12346 1235B 1239A
 1245A 12479 12567 1269B 127AB 1347A 1349B 1356A 13579 1367B 14569
 1457B 146AB 159AB 1679A 23459 2347B 2357A 23679 236AB 2456B 2467A
 249AB 2569A 2579B 34567 345AB 3469A 3569B 379AB 4579A 4679B 567AB
 D_9 : 01234 01257 01268 012AB 0135B 01367 0138A 01458 0146B 0147A 0156A
 0178B 02358 0236A 0237B 0245A 02467 0248B 0256B 0278A 03456 03478
 034AB 0357A 0368B 0457B 0468A 05678 058AB 067AB 12356 1237A 1238B
 1245B 1246A 12478 1258A 1267B 1345A 1346B 1347B 13578 136AB 14567
 148AB 1568B 157AB 1678A 23457 2346B 2348A 235AB 23678 2456B 247AB
 2567A 2578B 268AB 3458B 3467A 3567B 3568A 378AB 456AB 4578A 4678B
 D_A : 01235 01249 0126B 01278 01346 0137B 01389 01457 0148B 0156B 0159B
 01679 02347 02369 0238B 0245B 0246B 02567 02589 0279B 03458 0349B
 0356B 03579 03678 04569 0467B 04789 0578B 0689B 1234B 1236B 1237B
 1245B 12467 12569 1257B 1289B 13459 13478 13567 1358B 1369B 1456B
 14689 1479B 15789 1678B 23456 23489 23578 2359B 2367B 24579 2469B
 2478B 2568B 26789 3457B 34679 3468B 35689 3789B 45678 4589B 5679B
 D_B : 01236 01247 01258 0129A 01348 01359 0137A 0145A 01469 01567 0168A
 01789 02345 02379 0238A 0246A 02489 02569 0257A 02678 03467 0349A
 0356A 03578 03689 04568 04579 0478A 0589A 0679A 1234A 12357 12389
 12459 12468 1256A 12679 1278A 13456 13479 1358A 13678 1369A 14578
 1467A 1489A 15689 1579A 23469 23478 23568 2359A 2367A 24567 2458A
 2479A 25789 2689A 3457A 34589 3468A 35679 3789A 4569A 46789 5678A

Overlarge Set 6

123	234	134	124	129	126	125	128	127	120	126	120
478	579	507	560	365	374	348	364	345	378	349	378
596	608	689	879	708	809	907	590	096	645	758	645
$\mu_A \xi_B$	$\mu_A \nu_B$	$\xi_A \mu_B$	$\mu_A \xi_B$	$\mu_A \nu_B$	$\nu_A \xi_B$	$\nu_A \mu_B$	$\xi_A \nu_B$	$\xi_A \mu_B$	$\mu_B \nu_B$	$\mu_B \xi_A$	
D_0	D_1	D_2	D_3	D_4	D_5	D_6	D_7	D_8	D_9	D_A	D_B

D_0 : 12349 12358 12367 123AB 12456 1247B 1248A 1257A 1259B 1268B 1269A
 12789 13457 1346A 1348B 1356B 1359A 13689 1378A 1379B 14589 145AB
 14678 1469B 1479A 15679 1568A 1578B 167AB 189AB 2345B 2346B 2347A
 2356A 23579 2369B 2378B 2389A 2457B 2459A 24679 246AB 2489B 2567B
 25689 258AB 2678A 279AB 34569 3458A 3467B 34789 349AB 35678 357AB
 3589B 3679A 368AB 4567A 4568B 4579B 4689A 478AB 569AB 5789A 6789B
 D_1 : 02349 0235A 0236B 02378 02456 0247B 0248A 02579 0258B 0267A 02689
 029AB 03457 0346A 0348B 0356B 0359B 03679 037AB 0389A 04589 045AB
 04678 0469B 0479A 0567B 0569A 0578A 068AB 0789B 23458 23467 234AB
 23569 2357B 2368A 2379A 2389B 2457A 2459B 2468B 2469A 24789 25678
 256AB 2589A 2679B 278AB 3456B 3459A 34689 3478A 3479B 3567A 35789
 358AB 3678B 369AB 45679 4568A 4578B 467AB 489AB 5689B 579AB 6789A
 D_2 : 01349 0135A 0136B 01378 01456 0147B 0148A 01579 0158B 0167A 01689
 019AB 0345B 0346B 0347A 03567 03589 0369A 0379B 038AB 04578 0459A
 04679 046AB 0489B 0568A 0569B 057AB 0678B 0789A 13458 13467 134AB
 13569 1357B 1368A 1379A 1389B 1457A 1459B 1468B 1469A 14789 15678
 156AB 1589A 1679B 178AB 3456A 34579 3469B 3478B 3489A 3568B 3578A
 359AB 36789 367AB 4567B 45689 458AB 4678A 479AB 5679A 5789B 689AB

D_3 : 01248 0125A 01267 0129B 0145B 0146A 01479 01569 01578 0168B 017AB
 0189A 02459 0246B 0247A 02568 0257B 0269A 02789 028AB 04567 0458A
 04689 0478B 049AB 056AB 0579A 0589B 0678A 0679B 12457 12469 124AB
 1256B 12589 1268A 1278B 1279A 14568 1459A 1467B 1478A 1489B 1567A
 1579B 158AB 16789 169AB 2456A 2458B 2467B 2479B 2489A 25679 2578A
 259AB 267AB 2689B 4569B 45789 457AB 4679A 468AB 5678B 5689A 789AB
 D_4 : 01239 01256 0127B 0128A 01357 0136A 0138B 01589 015AB 01678 0169B
 0179A 0235B 02368 0237A 02578 0259A 02679 026AB 0289B 03569 0358A
 0367B 03789 039AB 0567A 0568B 0579B 0689A 078AB 1235A 1236B 1237B
 12579 1258B 1267A 12689 129AB 13568 1359B 13679 137AB 1389A 1567B
 1569A 1578A 168AB 1789B 23567 23589 2369A 2379B 238AB 2568A 2569B
 257AB 2678B 2789A 356AB 3578B 3579A 3678A 3689B 56789 589AB 679AB
 D_5 : 0123A 01246 01279 0128B 01347 01368 0139B 01489 014AB 0167B 0169A
 0178A 0234B 02367 02389 0247B 0249A 0268A 0269B 027AB 03469 0348A
 036AB 0378B 0379A 0467A 0468B 0479B 06789 089AB 12348 12369 1237B
 1247A 1249B 1267B 126AB 1289A 1346B 1349A 1367A 13789 138AB 14679
 1468A 1478B 1689B 179AB 2346A 23479 2368B 2378A 239AB 2467B 24689
 248AB 2679A 2789B 34678 347AB 3489B 3679B 3689A 469AB 4789A 678AB
 D_6 : 0123B 01245 0127A 01289 0134A 01358 01379 01478 0149B 0157B 0159A
 018AB 02348 02357 0239A 02479 024AB 0258A 0259B 0278B 03459 0347B
 035AB 0378A 0389B 0457A 0458B 0489A 05789 079AB 12347 12359 1238A
 1248B 1249A 12578 125AB 1279B 1345B 13489 1357A 1378B 139AB 14579
 1458A 147AB 1589B 1789A 2345A 2349B 2358B 23789 237AB 2457B 24589
 2478A 2579A 289AB 34578 3479A 348AB 3579B 3589A 459AB 4789B 578AB
 D_7 : 01238 0124A 0125B 01269 0134B 01356 0139A 01459 01468 0158A 016AB
 0189B 02346 02359 023AB 02458 0249B 0256A 0268B 0289A 0345A 0348B
 0358B 0368A 0369B 0456B 0469A 048AB 05689 059AB 12345 1236A 1239B
 1246B 12489 1256B 1259A 128AB 13469 1348A 13589 135AB 1368B 1456A
 1458B 149AB 1569B 1689A 2348B 2349A 2356B 2358A 23689 24569 245AB
 2468A 2589B 269AB 3456B 3459B 346AB 3569A 389AB 4589A 4689B 568AB
 D_8 : 01237 0124B 01259 0126A 01345 01369 013AB 01467 0149A 0156B 0157A
 0179B 0234A 02356 0239B 02457 02469 025AB 0267B 0279A 0346B 0347B
 0357B 0359A 0367A 0456A 0459B 047AB 05679 069AB 12346 1235B 1239A
 1245A 12479 12567 1269B 127AB 1347A 1349B 1356A 13579 1367B 14569
 1457B 146AB 159AB 1679A 23459 2347B 2357A 23679 236AB 2456B 2467A
 249AB 2569A 2579B 34567 345AB 3469A 3569B 379AB 4579A 4679B 567AB
 D_9 : 01236 01247 01258 012AB 01348 0135B 0137A 0145A 0146B 01567 0168A
 0178B 02345 0237B 0238A 0246A 0248B 0256B 0257A 02678 03467 034AB
 0356A 0357B 0368B 0456B 0457B 0478A 058AB 067AB 1234A 12357 1238B
 1245B 1246B 1256A 1267B 1278A 1345E 1347B 1358A 13678 136AB 14578
 1467A 148AB 1568B 157AB 2346B 2347B 2356B 235AB 2367A 24567 2458A
 247AB 2578B 268AB 3457A 3458B 3468A 3567B 378AB 456AB 4678B 5678A
 D_A : 01235 01249 0126B 0127B 01346 0137B 01389 01457 0148B 01568 0159B
 01679 02347 02369 0238B 0245B 0246B 02567 02589 0279B 03458 0349B
 0356B 0357B 0367B 0456B 0467B 0478B 0578B 0689B 1234B 1236B 1237B
 1245B 12467 12569 1257B 1289B 13459 13478 13567 1358B 1369B 1456B
 14689 1479B 15789 1678B 23456 23489 23578 2359B 2367B 24579 2469B
 2478B 2568B 26789 3457B 34679 3468B 3568B 35689 3789B 45678 4589B 5679B
 D_B : 01234 01257 01268 0129A 01359 01367 0138A 01458 01469 0147A 0156A
 01789 02358 0236A 02379 0245A 02467 02489 02569 0278A 03456 0347B
 0349A 0357A 03689 04579 0468A 05678 0589A 0679A 12356 1237A 1238B
 12459 1246A 12478 1258A 12679 1345A 1346B 13479 13578 1369A 14567
 1489A 15689 1579A 1678A 23457 23469 2348A 2359A 23678 24568 2479A
 2567A 25789 2689A 34589 3467A 35679 3568A 3789A 4569A 4578A 46789

Overlarge Set 7

	123	234	134	124	129	126	125	128	127	120	129	120
	478	579	507	560	365	374	348	364	345	378	653	564
	596	608	689	879	708	809	907	590	096	645	874	783
	$\mu_A \xi_B$	$\mu_A \nu_B$	$\xi_A \mu_B$	$\nu_A \xi_B$	$\mu_A \xi_B$	$\mu_A \nu_B$	$\nu_A \xi_B$	$\nu_A \mu_B$	$\xi_A \nu_B$	$\xi_A \mu_B$	$\mu_0 \nu_B$	$\mu_9 \xi_A$
	D_0	D_1	D_2	D_3	D_4	D_5	D_6	D_7	D_8	D_9	D_A	D_B
D_0	12349	12358	12367	123AB	12456	1247B	1248A	1257A	1259B	1268B	1269A	
	12789	13457	1346A	1348B	1356B	1359A	13689	1378A	1379B	14589	145AB	
	14678	1469B	1479A	15679	1568A	1578B	167AB	189AB	2345B	2346B	2347A	
	2356A	23579	2369B	2378B	2389A	2457B	2459A	24679	246AB	2489B	2567B	
	25689	258AB	2678A	279AB	34569	3458A	3467B	34789	349AB	35678	357AB	
	3589B	3679A	368AB	4567A	4568B	4579B	4689A	478AB	569AB	5789A	6789B	
D_1	02349	0235A	0236B	0237B	02456	0247B	0248A	02579	0258B	0267A	02689	
	029AB	03457	0346A	0348B	0356B	0359B	03679	037AB	0389A	04589	045AB	
	04678	0469B	0479A	0567B	0569A	0578A	068AB	0789B	2345B	23467	234AB	
	23569	2357B	2368A	2379A	2389B	2457A	2459B	2468B	2469A	24789	25678	
	256AB	2589A	2679B	278AB	3456B	3459A	34689	3478A	3479B	3567A	35789	
	358AB	3678B	369AB	45679	4568A	4578B	467AB	489AB	5689B	5789A	6789A	
D_2	01349	0135A	0136B	0137B	01456	0147B	0148A	01579	0158B	0167A	01689	
	019AB	0345B	0346B	0347A	03567	03589	0369A	0379B	038AB	04578	0459A	
	04679	046AB	0489B	0568A	0569B	057AB	0678B	0789A	13458	13467	134AB	
	13569	1357B	1368A	1379A	1389B	1457A	1459B	1468B	1469A	14789	15678	
	156AB	1589A	1679B	178AB	3456A	34579	3469B	3478B	3489A	3568B	3578A	
	359AB	36789	367AB	4567B	45689	458AB	4678A	479AB	5679A	5789B	689AB	
D_3	01249	0125A	0126B	0127B	01457	0146A	0148B	01568	0159B	01679	017AB	
	0189A	0245B	0246B	0247A	02567	02589	0269A	0279B	028AB	04569	0458A	
	0467B	04789	049AB	056AB	0578B	0579A	0678A	0689B	12458	12467	124AB	
	12569	1257B	1268A	1279A	1289B	1456B	1459A	14689	1478A	1479B	1567A	
	15789	158AB	1678B	169AB	2456A	24579	2469B	2478B	2489A	2568B	2578A	
	259AB	2678B	267AB	45678	457AB	4589B	4679A	468AB	5679B	5689A	789AB	
D_4	01239	01256	0127B	0128A	01357	0136A	0138B	01589	015AB	01678	0169B	
	0179A	0235B	0236B	0237A	02578	0259A	02679	026AB	0289B	03569	0358A	
	0367B	03789	039AB	0567A	0568B	0579B	0689A	078AB	1235A	1236B	12378	
	12579	1258B	1267A	12689	129AB	1356B	1359B	13679	137AB	1389A	1567B	
	1569A	1578A	168AB	1789B	23567	23589	2369A	2379B	238AB	2389B	2568A	2569B
	257AB	2678B	2789A	356AB	3578B	3579A	3678A	3689B	56789	589AB	679AB	
D_5	0123A	01246	01279	0128B	01347	0136B	0139B	01489	014AB	0167B	0169A	
	0178A	0234B	02367	02389	02478	0249A	0268A	0269B	027AB	03469	0348A	
	036AB	0378B	0379A	0467A	0468B	0479B	06789	089AB	12348	12369	1237B	
	1247A	1249B	12678	126AB	1289A	1346B	1349A	1367A	13789	138AB	14679	
	1468A	1478B	1689B	179AB	2346A	23479	2368B	2378A	239AB	2467B	24689	
	248AB	2679A	2789B	34678	347AB	3489B	3679B	3689A	469AB	4789A	578AB	
D_6	0123B	01245	0127A	01289	0134A	01358	01379	01478	0149B	0157B	0159A	
	018AB	02348	02357	0239A	02479	024AB	0258A	0259B	0278B	03459	0347B	
	035AB	0378A	0389B	0457A	0458B	0489A	05789	079AB	12347	12359	1238A	
	1248B	1249A	12578	125AB	1279B	1345B	13489	1357A	1378B	139AB	14579	
	1458A	147AB	1589B	1789A	2345A	2349B	2358B	23789	237AB	2457B	24589	
	2478A	2579A	289AB	34578	3479A	348AB	3579B	3589A	459AB	4789B	578AB	
D_7	01238	0124A	0125B	01269	0134B	01356	0139A	01459	01468	0158A	016AB	
	0189B	02346	02359	023AB	02458	0249B	0256A	0268B	0289A	0345A	03489	
	0358B	0368A	0369B	0456B	0469A	048AB	05689	059AB	12345	1236A	1239B	
	1246B	12489	12568	1259A	128AB	13469	1348A	13589	135AB	1368B	1456A	
	1458B	149AB	1569B	1689A	2348B	2349A	2356B	2358A	23689	24569	245AB	
	2468A	2589B	269AB	34568	3459B	346AB	3569A	389AB	4589A	4689B	568AB	
D_8	01237	0124B	01259	0126A	01345	01369	013AB	01467	0149A	0156B	0157A	
	0179B	0234A	02356	0239B	02457	02469	025AB	0267B	0279A	0346B	03479	
	0357B	0359A	0367A	0456A	0459B	047AB	05679	069AB	12346	1235B	1239A	
	1245A	12479	12567	1269B	127AB	1347A	1349B	1356A	13579	1367B	14569	
	1457B	146AB	159AB	1679A	23459	2347B	2357A	23679	236AB	2456B	2467A	
	249AB	2569A	2579B	34567	345AB	3469A	3569B	379AB	4579A	4679B	567AB	

D_9 : 01234 01257 01268 012AB 0135B 01367 0138A 01458 0146B 0147A 0156A
 0178B 02358 0236A 0237B 0245A 02467 0248B 0256B 0278A 03456 03478
 034AB 0357A 0368B 0457B 0468A 0567B 058AB 067AB 12356 1237A 1238B
 1245B 1246A 1247B 1258A 1267B 1345A 1346B 1347B 1357B 136AB 14567
 148AB 1568B 157AB 1678A 23457 2346B 2348A 235AB 2367B 24568 247AB
 2567A 2578B 268AB 3458B 3467A 3567B 3568A 378AB 456AB 4578A 4678B
 D_A : 01235 01248 01267 0129B 01346 0137B 01389 0145B 01479 01569 01578
 0168B 02347 02369 0238B 02459 0246B 0256B 0257B 0278B 03458 0349B
 0356B 0357B 0367B 04567 04689 0478B 0589B 0679B 1234B 1236B 1237B
 12457 12469 1256B 12589 1278B 13459 13478 13567 1358B 1369B 14568
 1467B 1489B 1579B 1678B 23456 23489 2357B 2359B 2367B 2458B 24678
 2479B 25679 2689B 3457B 34679 3468B 35689 3789B 4569B 45789 5678B
 D_B : 01236 01247 01258 0129A 01348 01359 0137A 0145A 01469 01567 0168A
 01789 02345 02379 0238A 0246A 02489 02569 0257A 02678 03467 0349A
 0356A 0357B 0368B 04568 04579 0478A 0589A 0679A 1234A 12357 1238B
 12459 12468 1256A 12679 1278A 13456 13479 1358A 1367B 1369A 14578
 1467A 1489A 1568B 1579A 23469 23478 23568 2359A 2367A 24567 2458A
 2479A 25789 2689A 3457A 3458B 3468A 35679 3789A 4569A 46789 5678A

Overlarge Set 8

123	234	134	124	129	126	125	128	127	120	129	120
478	579	507	560	365	374	348	364	345	378	653	564
596	608	689	879	708	809	907	590	096	645	874	783
$\mu_A \xi_B$	$\mu_A \nu_B$	$\xi_A \mu_B$	$\nu_A \xi_B$	$\mu_A \xi_B$	$\mu_A \nu_B$	$\nu_A \xi_B$	$\nu_A \mu_B$	$\xi_A \nu_B$	$\xi_A \mu_B$	$\mu_0 \xi_B$	$\mu_9 \nu_A$
D_0	D_1	D_2	D_3	D_4	D_5	D_6	D_7	D_8	D_9	D_A	D_B

D_0 : 12349 12358 12367 123AB 12456 1247B 1248A 1257A 1259B 1268B 1269A
 12789 13457 1346A 1348B 1356B 1359A 13689 1378A 1379B 14589 145AB
 14678 1469B 1479A 15679 1568A 1578B 167AB 189AB 2345B 2346B 2347A
 2356A 23579 2369B 2378B 2389A 24578 2459A 24679 246AB 2489B 2567B
 25689 258AB 2678A 279AB 34569 3458A 3467B 34789 349AB 35678 357AB
 3589B 3679A 368AB 4567A 4568B 4568B 4579B 4689A 478AB 569AB 5789A 5789B
 D_1 : 02349 0235A 0236B 0237B 02456 0247B 0248A 02579 0258B 0267A 02689
 029AB 03457 0346A 0348B 0356B 0359B 03679 037AB 0389A 04589 045AB
 04678 0469B 0479A 0567B 0569A 0578A 068AB 0789B 2345B 23467 234AB
 23569 2357B 2368A 2379A 2389B 2457A 2459B 2468B 2469A 24789 25678
 256AB 2589A 2679B 278AB 3456B 3459A 34689 3478A 3479B 3567A 35789
 358AB 3678B 369AB 45679 4568A 4578B 467AB 489AB 5689B 579AB 6789A
 D_2 : 01349 0135A 0136B 0137B 01456 0147B 0148A 01579 0158B 0167A 01689
 019AB 0345B 0346B 0347A 03567 03589 0369A 0379B 038AB 04578 0459A
 04679 046AB 0489B 0568A 0569B 0578A 0678B 0789A 13458 13467 134AB
 13569 1357B 1368A 1379A 1389B 1457A 1459B 1468B 1469A 14789 15678
 156AB 1589A 1679B 178AB 3456A 34579 3469B 3478B 3489A 3568B 3578A
 359AB 36789 367AB 4567B 45689 458AB 4678A 479AB 5679A 5789B 689AB
 D_3 : 01249 0125A 0126B 0127B 01457 0146A 0148B 0156B 0159B 01679 017AB
 0189A 0245B 0246B 0247A 02567 02589 0269A 0279B 028AB 04569 0458A
 04678 04789 049AB 056AB 0578B 0579A 0678A 0689B 12458 12467 124AB
 12569 1257B 1268A 1279A 1289B 1456B 1459A 1468B 1469A 14789 1567A
 15789 158AB 1678B 169AB 2456A 24579 2469B 2478B 2489A 2568B 2578A
 259AB 26789 267AB 45678 457AB 4589B 4679A 468AB 5679B 5689A 789AB
 D_4 : 01239 01256 0127B 0128A 01357 0136A 0138B 0158B 015AB 01678 0169B
 0179A 0235B 0236B 0237A 0257B 0259A 02679 026AB 0289B 03569 0358A
 0367B 03789 039AB 0567A 0568B 0579B 0689A 078AB 1235A 1236B 1237B
 12579 1258B 1267A 1268B 129AB 1356B 1359B 1367B 137AB 1389A 1567B
 1569A 1578A 168AB 1789B 23567 23589 2369A 2379B 238AB 2568A 2569B
 257AB 2678B 2789A 356AB 3578B 3579A 3678A 3689B 56789 589AB 679AB
 D_5 : 0123A 01246 01279 0128B 01347 01368 0139B 01489 014AB 0167B 0169A
 0178A 0234B 02367 02389 0247B 0249A 0268A 0269B 027AB 03469 0348A
 036AB 0378B 0379A 0467A 0468B 0479B 06789 089AB 1234B 12369 1237B
 1247A 1249B 12678 126AB 1289A 1346B 1349A 1367A 13789 138AB 14679
 1468A 1478B 1689B 179AB 2346A 23479 2368B 2378A 239AB 2467B 24689
 248AB 2679A 2789B 34678 347AB 3489B 3489B 3679B 3689A 469AB 4789A 678AB

D_6 : 0123B 01245 0127A 01289 0134A 01358 01379 01478 0149B 0157B 0159A
 018AB 02348 02357 0239A 02479 024AB 0258A 0259B 0278B 03459 0347B
 035AB 0378A 0389B 0457A 0458B 0489A 05789 079AB 12347 12359 1238A
 1248B 1249A 12578 125AB 1279B 1345B 13489 1357A 1378B 139AB 14579
 1458A 147AB 1589B 1789A 2345A 2349B 2358B 23789 237AB 2457B 24589
 2478A 2579A 289AB 34578 3479A 348AB 3579B 3589A 459AB 4789B 578AB
 D_7 : 01238 0124A 0125B 01269 0134B 01356 0139A 01459 0146B 0158A 016AB
 0189B 02346 02359 023AB 02458 0249B 0256A 0268B 0289A 0345A 03489
 0358B 0368A 0369B 0456B 0469A 048AB 05689 059AB 12345 1236A 1239B
 1246B 12489 12568 1259A 128AB 13469 1348A 13589 135AB 1368B 1456A
 1458B 149AB 1569B 1689A 2348B 2349A 2356B 2358A 23689 24569 245AB
 2468A 2589B 269AB 3456B 3459B 346AB 3569A 389AB 4589A 4689B 568AB
 D_8 : 01237 0124B 01259 0126A 01345 01369 013AB 01467 0149A 0156B 0157A
 0179B 0234A 02356 0239B 02457 02469 025AB 0267B 0279A 0346B 03479
 0357B 0359A 0367A 0456A 0459B 047AB 05679 069AB 12346 1235B 1239A
 1245A 12479 12567 1269B 127AB 1347A 1349B 1356A 13579 1367B 14569
 1457B 146AB 159AB 1679A 23459 2347B 2357A 23679 236AB 2456B 2467A
 249AB 2569A 2579B 34567 345AB 3469A 3569B 379AB 4579A 4679B 567AB
 D_9 : 01234 01257 01268 012AB 0135B 01367 0138A 01458 0146B 0147A 0156A
 0178B 02358 0236A 0237B 0245A 02467 0248B 0256B 0278A 03456 03478
 034AB 0357A 0368B 0457B 0468A 05678 058AB 067AB 12356 1237A 1238B
 1245B 1246A 12478 1258A 1267B 1345A 13468 1347B 13578 136AB 14567
 148AB 1568B 157AB 1678A 23457 2346B 2348A 235AB 23678 24568 247AB
 2567A 2578B 268AB 3458B 3467A 3567B 3568A 378AB 456AB 4578A 4678B
 D_A : 01236 01247 01258 0129B 01348 01359 0137B 0145B 01469 01567 0168B
 01789 02345 02379 0238B 0246B 02489 02569 0257B 02678 03467 0349B
 0356B 0357B 0368B 0456B 04579 0478B 0589B 0679B 1234B 12357 12389
 12459 12468 1256B 12679 1278B 13456 13479 1358B 13678 1369B 14578
 1467B 1489B 15689 1579B 23469 2347B 23568 2359B 2367B 24567 2458B
 2479B 25789 2689B 3457B 34589 3468B 35679 3789B 4569B 46789 5678B
 D_B : 01235 01248 01267 0129A 01346 0137A 0138B 0145A 01469 01569 01578
 0168A 02347 02369 0238A 02459 0246A 0256B 0257A 02789 03458 0349A
 0356A 0357B 0367B 04567 0468B 0478A 0589A 0679A 1234A 1236B 1237B
 12457 12469 1256A 12589 1278A 13459 13478 13567 1358A 1369A 14568
 1467A 1489A 1579A 16789 23456 23489 23578 2359A 2367A 2458A 24678
 2479A 25679 2689A 3457A 34679 3468A 35689 3789A 4569A 45789 5678A

Overlarge Set 9

123	234	134	124	129	126	125	128	127	120	129	120
478	579	507	560	365	374	348	345	364	378	653	564
596	608	689	879	708	809	907	096	590	645	874	783
$\mu_A \xi_B$	$\mu_A \nu_B$	$\xi_A \mu_B$	$\nu_A \xi_B$	$\mu_A \xi_B$	$\mu_A \nu_B$	$\nu_A \xi_B$	$\xi_A \nu_B$	$\nu_A \mu_B$	$\xi_A \mu_B$	$\mu_0 \nu_B$	$\mu_9 \xi_A$
D_0	D_1	D_2	D_3	D_4	D_5	D_6	D_7	D_8	D_9	D_A	D_B

D_0 : 12349 12358 12367 123AB 12456 1247B 1248A 1257A 1259B 1268B 1269A
 12789 13457 1346A 1348B 1356B 1359A 13689 1378A 1379B 14589 145AB
 14678 1469B 1479A 15679 1568A 1578B 167AB 189AB 2345B 2346B 2347A
 2356A 23579 2369B 2378B 2389A 2457B 2459A 24679 246AB 2489B 2567B
 25689 258AB 2678A 279AB 34569 3458A 3467B 34789 349AB 35678 357AB
 3589B 3679A 368AB 4567A 4568B 4579B 4689A 478AB 569AB 5789A 6789B
 D_1 : 02349 0235A 0236B 02378 02456 0247B 0248A 02579 0258B 0267A 02689
 029AB 03457 0346A 0348B 0356B 0359B 03679 037AB 0389A 04589 045AB
 04678 0469B 0479A 0567B 0569A 0578A 068AB 0789B 23458 23467 234AB
 23569 2357B 2368A 2379A 2389B 2457A 2459B 2468B 2469A 24789 25678
 256AB 2589A 2679B 278AB 3456B 3459A 34689 3478A 3479B 3567A 35789
 358AB 3678B 369AB 45679 4568A 4578B 467AB 489AB 5689B 579AB 6789A
 D_2 : 01349 0135A 0136B 0137B 01456 0147B 0148A 01579 0158B 0167A 01689
 019AB 0345B 0346B 0347A 03567 03589 0369A 0379B 038AB 04578 0459A
 04679 046AB 0489B 0568A 0569B 057AB 0678B 0789A 13458 13467 134AB
 13569 1357B 1368A 1379A 1389B 1457A 1459B 1468B 1469A 14789 15678
 156AB 1589A 1679B 178AB 3456A 34579 3469B 3478B 3489A 3568B 3578A
 359AB 36789 367AB 4567B 45689 458AB 4678A 479AB 5679A 5789B 689AB

D_3 : 01249 0125A 0126B 01278 01457 0146A 0148B 01568 0159B 01679 017AB
 0189A 0245B 02468 0247A 02567 02589 0269A 0279B 028AB 04569 0458A
 0467B 04789 049AB 056AB 0578B 0579A 0678A 0689B 12458 12467 124AB
 12569 1257B 1268A 1279A 1289B 1456B 1459A 14689 1478A 1479B 1567A
 15789 158AB 1678B 169AB 2456A 24579 2469B 2478B 2489A 2568B 2578A
 259AB 26789 267AB 45678 457AB 4589B 4679A 468AB 5679B 5689A 789AB
 D_4 : 01239 01256 0127B 0128A 01357 0136A 0138B 01589 015AB 01678 0169B
 0179A 0235B 02368 0237A 02578 0259A 02679 026AB 0289B 03569 0358A
 0367B 03789 039AB 0567A 0568B 0579B 0689A 078AB 1235A 1236B 1237B
 12579 1258B 1267A 12689 129AB 1356B 1359B 13679 137AB 1389A 1567B
 1569A 1578A 168AB 1789B 23567 23589 2369A 2379B 238AB 2568A 2569B
 257AB 2678B 2789A 356AB 3578B 3579A 3678A 3689B 56789 589AB 679AB
 D_5 : 0123A 01246 01279 0128B 01347 0136B 0139B 01489 014AB 0167B 0169A
 0178A 0234B 02367 02389 0247B 0249A 0268A 0269B 027AB 03469 0348A
 036AB 0378B 0379A 0467A 0468B 0479B 06789 089AB 1234B 1236B 1237B
 1247A 1249B 12678 126AB 1289A 1346B 1349A 1367A 13789 138AB 14679
 1468A 1478B 1689B 179AB 2346A 2347B 2368B 2378A 239AB 2467B 24689
 248AB 2679A 2789B 34678 347AB 3489B 3679B 3689A 469AB 4789A 678AB
 D_6 : 0123B 01245 0127A 01289 0134A 01358 01379 0147B 0149B 0157B 0159A
 018AB 02348 02357 0239A 02479 024AB 0258A 0259B 0278B 03459 0347B
 035AB 0378A 0389B 0457A 0458B 0489A 05789 079AB 12347 12359 1238A
 1248B 1249A 12578 125AB 1279B 1345B 13489 1357A 1378B 139AB 14579
 1458A 147AB 1589B 1789A 2345A 2349B 2358B 23789 237AB 2457B 24589
 2478A 2579A 289AB 34578 3479A 348AB 3579B 3589A 459AB 4789B 578AB
 D_7 : 01238 0124B 01259 0126A 01345 01369 013AB 0146B 0149A 0156B 0158A
 0189B 0234A 02356 0239B 02458 02469 025AB 0268B 0289A 0346B 03489
 0358B 0359A 0368A 0456A 0459B 048AB 05689 069AB 12346 1235B 1239A
 1245A 12489 12568 1269B 128AB 1348A 1349B 1356A 13589 1368B 14569
 1458B 146AB 159AB 1689A 23459 2348B 2358A 23689 236AB 2456B 2468A
 249AB 2569A 2589B 34568 345AB 3469A 3569B 389AB 4589A 4689B 568AB
 D_8 : 01237 0124A 0125B 01269 0134B 01356 0139A 01459 01467 0157A 016AB
 0179B 02346 02359 023AB 02457 0249B 0256A 0267B 0279A 0345A 03479
 0357B 0367A 0369B 0456B 0469A 047AB 05679 059AB 12345 1236A 1239B
 1246B 12479 12567 1259A 127AB 13469 1347A 13579 135AB 1367B 1456A
 1457B 149AB 1569B 1679A 2347B 2349A 2356B 2357A 23679 24569 245AB
 2467A 2579B 269AB 34567 3459B 346AB 3569A 379AB 4579A 4679B 567AB
 D_9 : 01234 01257 01268 012AB 0135B 01367 0138A 01458 0146B 0147A 0156A
 0178B 02358 0236A 0237B 0245A 02467 0248B 0256B 0278A 03456 03478
 034AB 0357A 0368B 0457B 0468A 05678 058AB 067AB 12356 1237A 1238B
 1245B 1246A 12478 1258A 1267B 1345A 1346B 1347B 1357B 136AB 14567
 148AB 1568B 157AB 1678A 23457 2346B 2348A 235AB 23678 24568 247AB
 2567A 2578B 268AB 3458B 3467A 3567B 3568A 378AB 456AB 4578A 4678B
 D_A : 01235 01248 01267 0129B 01346 0137B 01389 0145B 01479 01569 01578
 0168B 02347 02369 0238B 02459 0246B 02568 0257B 02789 03458 0349B
 0356B 03579 0367B 04567 04689 0478B 0589B 0679B 1234B 1236B 1237B
 12457 12469 1256B 12589 1278B 13459 1347B 13567 1358B 1369B 14568
 1467B 1489B 1579B 16789 23456 23489 23578 2359B 2367B 2458B 24678
 2479B 25679 2689B 3457B 34679 3468B 35689 3789B 4569B 45789 5678B
 D_B : 01236 01247 01258 0129A 01348 01359 0137A 0145A 01469 01567 0168A
 01789 02345 02379 0238A 0246A 02489 02569 0257A 02678 03467 0349A
 0356A 0357B 03689 04568 04579 0478A 0589A 0679A 1234A 12357 12389
 12459 12468 1256A 12679 1278A 13456 13479 1358A 1367B 1369A 14578
 1467A 1489A 15689 1579A 23469 23478 23568 2359A 2367A 24567 2458A
 2479A 25789 2689A 3457A 34589 3468A 35679 3789A 4569A 46789 5678A

Overlarge Set 10

123	234	134	124	129	126	125	128	120	127	123	120
478	579	507	560	365	374	348	345	379	364	485	438
596	608	689	879	708	809	907	096	645	580	976	657
$\mu_A \zeta_B$	$\mu_A \nu_B$	$\xi_A \nu_B$	$\nu_A \zeta_B$	$\mu_A \zeta_B$	$\mu_A \nu_B$	$\mu_A \zeta_B$	$\xi_A \nu_B$	$\xi_A \mu_B$	$\nu_A \mu_B$	$\mu_0 \zeta_B$	$\mu_0 \nu_A$
D_0	D_1	D_2	D_3	D_4	D_5	D_6	D_7	D_8	D_9	D_A	D_B

D_0 :	12349	12358	12367	123AB	12456	1247B	1248A	1257A	1259B	1268B	1269A
	12789	13457	1346A	1348B	1356B	1359A	13689	1378A	1379B	14589	145AB
	14678	1469B	1479A	15679	1568A	1578B	167AB	189AB	2345B	2346B	2347A
	2356A	23579	2369B	2378B	2389A	2457B	2459A	24679	246AB	2489B	2567B
	25689	258AB	2678A	279AB	34569	3458A	3467B	34789	349AB	35678	357AB
	3589B	3679A	368AB	4567A	4568B	4578B	4689A	478AB	569AB	5789A	6789B
D_1 :	02349	0235A	0236B	0237B	02456	0247B	0248A	02579	0258B	0267A	02689
	029AB	03457	0346A	0348B	0356B	0359B	03679	037AB	0389A	04589	045AB
	04678	0469B	0479A	0567B	0569A	0578A	068AB	0789B	2345B	23467	234AB
	23569	2357B	2368A	2379A	2389B	2457A	2459B	2468B	2469A	24789	25678
	256AB	2589A	2679B	278AB	3456B	3459A	34689	3478A	3479B	3567A	35789
	358AB	3678B	369AB	45679	4568A	4578B	467AB	489AB	5689B	579AB	6789A
D_2 :	01348	01359	0136B	0137A	0145A	01469	0147B	01567	0158B	0168A	01789
	019AB	0345B	03467	0349A	0356A	03578	03689	0379B	038AB	04568	04579
	046AB	0478A	0489B	0569B	057AB	0589A	0678B	0679A	13456	13479	134AB
	1357B	1358A	1367B	1369A	1389B	14578	1459B	1467A	1468B	1489A	15689
	156AB	1579A	1679B	178AB	3457A	34589	3468A	3469B	3478B	35679	3568B
	359AB	367AB	3789A	4567B	4569A	458AB	46789	479AB	5678A	5789B	689AB
D_3 :	01249	0125A	0126B	0127B	01457	0146A	0148B	01568	0159B	01679	017AB
	0189A	0245B	0246B	0247A	02567	02589	0269A	0279B	028AB	04569	0458A
	0467B	04789	049AB	056AB	057B8	0579A	0678A	0689B	12458	12467	124AB
	12569	1257B	1268A	1279A	1289B	1456B	1459A	14689	1478A	1479B	1567A
	15789	158AB	1678B	169AB	2456A	24579	2469B	2478B	2489A	2568B	2578A
	259AB	26789	267AB	4567B	457AB	4589B	4679A	468AB	5679B	5689A	789AB
D_4 :	01239	01256	0127B	0128A	01357	0136A	0138B	01589	015AB	01678	0169B
	0179A	0235B	0236B	0237A	02578	0259A	02679	026AB	0289B	03569	0358A
	0367B	03789	039AB	0567A	0568B	0579B	0689A	078AB	1235A	1236B	12378
	12579	1258B	1267A	12689	129AB	13568	1359B	13679	137AB	1389A	1567B
	1569A	1578A	168AB	1789B	23567	23589	2369A	2379B	238AB	2568A	2569B
	257AB	2678B	2789A	356AB	357B8	3579A	3678A	3689B	56789	589AB	679AB
D_5 :	0123A	01246	01279	0128B	01347	01368	0139B	01489	014AB	0167B	0169A
	0178A	0234B	02367	02389	02478	0249A	0268A	0269B	027AB	03469	0348A
	036AB	0378B	0379A	0467A	0468B	0479B	06789	089AB	12348	12369	1237B
	1247A	1249B	12678	126AB	1289A	1346B	1349A	1367A	13789	137AB	14679
	1468A	1478B	1689B	179AB	2346A	23479	2368B	2378A	239AB	2467B	24689
	248AB	2679A	2789B	34678	347AB	3489B	3679B	3689A	469AB	4789A	678AB
D_6 :	01235	01248	0127A	0129B	0134A	0137B	01389	0145B	01479	01578	0159A
	018AB	02347	0238B	0239A	02459	02469	0257B	0258A	02789	03458	0349B
	03579	035AB	0378A	0457A	0478B	0489A	0589B	079AB	1234B	12379	1238A
	12457	1249A	12589	125AB	1278B	13459	13478	1357A	1358B	139AB	1458A
	147AB	1489B	1579B	1789A	2345A	23489	23578	2359B	237AB	2458B	2478A
	2479B	2579A	289AB	3457B	3479A	348AB	3589A	3789B	45789	459AB	578AB
D_7 :	01238	01248	01259	0126A	01345	01369	013AB	01468	0149A	0156B	0158A
	0189B	0234A	02356	0239B	02458	02469	025AB	0268B	0289A	0346B	03489
	0358B	0359A	0368A	0456A	0459B	048AB	05689	069AB	12346	1235B	1239A
	1245A	12489	12568	1269B	128AB	1348A	1349B	1356A	13589	1368B	14569
	1458B	146AB	159AB	1689A	23459	2348B	2358A	23689	236AB	2456B	2468A
	249AB	2569A	2589B	34568	345AB	3469A	3569B	389AB	4589A	4689B	568AB
D_8 :	01234	01257	01269	012AB	0135B	01367	0139A	01459	0146B	0147A	0156A
	0179B	02359	0236A	0237B	0245A	02467	0249B	0256B	0279A	03456	03479
	034AB	0357A	0369B	0457B	0469A	05679	059AB	067AB	12346	12356	1237A
	1245B	1246A	12479	1259A	1267B	1345A	13469	1347B	13579	136AB	14567
	149AB	1569B	157AB	1679A	23457	2346B	2349A	235AB	23679	24569	247AB
	2567A	2579B	269AB	3459B	3467A	3567B	3569A	379AB	456AB	4579A	4679B

D_9 : 01237 0124A 0125B 01268 0134B 01356 0138A 01458 01467 0157A 016AB
 0178B 02346 02358 023AB 02457 0248B 0256A 0267B 0278A 0345A 03478
 0357B 0367A 0368B 0456B 0468A 047AB 05678 058AB 12345 1236A 1238B
 1246B 12478 12567 1258A 127AB 1346B 1347A 13578 135AB 1367B 1456A
 1457B 148AB 1568B 1678A 2347B 2348A 2356B 2357A 23678 24568 245AB
 2467A 2578B 268AB 34567 3458B 346AB 3568A 378AB 4578A 4678B 567AB
 D_A : 0123B 01245 01267 01289 01346 01358 01379 01478 0149B 01569 0157B
 0168B 02348 02357 02369 0246B 02479 02568 0259B 0278B 03459 0347B
 0356B 03678 0389B 04567 0458B 04689 05789 0679B 12347 12359 12368
 12469 1248B 1256B 12578 1279B 1345B 1348B 13567 1369B 1378B 1456B
 14579 1467B 1589B 1678B 23456 2349B 2358B 2367B 2378B 2457B 24589
 24678 25679 2689B 34578 34679 3468B 35689 3579B 4569B 4789B 5678B
 D_B : 01236 01247 01258 0129A 01349 0135A 01378 01456 0148A 01579 0167A
 01689 02345 02379 0238A 0246A 02489 02569 0257A 02678 0346B 0347A
 03567 03589 0369A 04578 0459A 04679 0568A 0789A 1234A 12357 12389
 12459 12468 1256A 12679 1278A 1345B 13467 13569 1368A 1379A 1457A
 1469A 14789 15678 1589A 23469 23478 23568 2359A 2367A 24567 2458A
 2479A 25789 2689A 3456A 34579 3489A 3578A 36789 45689 4678A 5679A

Overlarge Set 11

123	234	134	124	129	126	127	120	125	128	129	127
478	579	507	560	365	374	384	398	346	345	435	340
596	608	689	879	708	809	590	645	907	076	786	685
$\mu_A \zeta_B$	$\mu_A \nu_B$	$\nu_A \mu_B$	$\nu_A \mu_B$	$\mu_A \zeta_B$	$\mu_A \nu_B$	$\nu_A \mu_B$	$\xi_A \mu_B$	$\nu_A \zeta_B$	$\xi_A \nu_B$	$\mu_0 \nu_B$	$\mu_9 \nu_A$
D_0	D_1	D_2	D_3	D_4	D_5	D_6	D_7	D_8	D_9	D_A	D_B
D_0	12349 12358 12367 123AB 12456 1247B 1248A 1257A 1259B 1268B 1269A 12789 13457 1346A 1348B 1356B 1359A 13689 1378A 1379B 14589 145AB 14678 1469B 1479A 15679 1568A 1578B 167AB 189AB 2345B 2346B 2356A 23579 2369B 2378B 2389A 24578 2459A 24679 246AB 2489B 2567B 25689 258AB 2678A 279AB 34569 3458A 3467B 34789 349AB 35678 357AB 3589B 3679A 368AB 4567A 4568B 4579B 4689A 478AB 569AB 5789A 6789B										
D_1	02349 0235A 0236B 02378 02456 0247B 0248A 02579 0258B 0267A 02689 029AB 03457 0346A 0348B 0356B 0359B 03679 037AB 0389A 04589 045AB 04678 0469B 0479A 0567B 0569A 0578A 068AB 0789B 23458 23467 234AB 23569 2357B 2368A 2379A 2389B 2457A 2459B 2468B 2469A 24789 25678 256AB 2589A 2679B 278AB 3456B 3459A 34689 3478A 3479B 3567A 35789 358AB 3678B 369AB 45679 4568A 4578B 467AB 489AB 5689B 579AB 6789A										
D_2	01346 0135A 0137B 01389 0145B 01479 0148A 01569 01578 0167A 0168B 019AB 03458 0347A 0349B 0356B 03579 03678 0369A 038AB 04567 0459A 04689 046AB 0478B 0568A 057AB 0589B 0679B 0789A 13459 13478 134AB 13567 1358B 1368A 1369B 1379A 1456B 1457A 1467B 1469A 1489B 156AB 1579B 1589A 16789 178AB 3456A 3457B 34679 3468B 3489A 35689 3578A 359AB 367AB 3789B 4569B 4578B 458AB 4678A 479AB 5678B 5679A 689AB										
D_3	01247 01258 0126B 0129A 0145A 01469 0148B 01567 0159B 0168A 01789 017AB 0245B 0246A 02489 02569 0257A 02678 0279B 028AB 04568 04579 0467B 0478A 049AB 056AB 0578B 0589A 0679A 0689B 12459 1246B 124AB 1256A 1257B 12679 1278A 1289B 1456B 1457B 1467A 1479B 1489A 15689 1579A 158AB 1678B 169AB 24567 2458A 2469B 2478B 2479A 2568B 25789 259AB 267AB 2689A 4569A 457AB 4589B 46789 468AB 5678A 5679B 789AB										
D_4	01239 01256 0127B 0128A 01357 0136A 0138B 01589 015AB 01678 0169B 0179A 0235B 0236B 0237A 0257B 0259A 02679 026AB 0289B 03569 0358A 0367B 03789 039AB 0567A 0568B 0579B 0689A 078AB 1235A 1236B 12378 12579 1258B 1267A 12689 129AB 1356B 1359B 13679 137AB 1389A 1567B 1569A 1578A 168AB 1789B 23567 23589 2369A 2379B 238AB 2568A 2569B 257AB 2678B 2789A 356AB 3578B 3579A 3678A 3689B 56789 589AB 679AB										
D_5	0123A 01246 01279 0128B 01347 01368 0139B 01489 014AB 0167B 0169A 0178A 0234B 02367 02389 0247B 0249A 0268A 0269B 027AB 03469 0348A 036AB 0378B 0379A 0467A 0468B 0479B 06789 089AB 12348 12369 12378 1247A 1249B 12678 126AB 1289A 1346B 1349A 1367A 13789 138AB 14679 1468A 1478B 1689B 179AB 2346A 2347B 2368B 2378A 239AB 2467B 24689 248AB 2679A 2789B 3467B 347AB 3489B 3679B 3689A 469AB 4789A 678AB										

D_6 : 01237 0124A 0125B 01289 0134B 0135B 0139A 01459 01478 0157A 0179B
 018AB 02348 02359 023AB 02457 0249B 0258A 0278B 0279A 0345A 03479
 0357B 0378A 0389B 0458B 047AB 0489A 05789 059AB 12345 1238A 1239B
 12479 1248B 12578 1259A 127AB 1347A 13489 13579 135AB 1378B 1457B
 1458A 149AB 1589B 1789A 2347B 2349A 2357A 2358B 23789 24589 245AB
 2478A 2579B 289AB 34578 3459B 348AB 3589A 379AB 4579A 4789B 578AB
 D_7 : 01234 01259 01268 012AB 0135B 01369 0138A 01458 0146B 0149A 0156A
 0189B 02358 0236A 0239B 0245A 02469 0248B 0256B 0289A 03456 03489
 034AB 0359A 0368B 0459B 0468A 05689 058AB 069AB 12356 1238B 1239A
 1245B 1246A 12489 1258A 1269B 1345A 1346B 1349B 13589 136AB 14569
 148AB 1568B 159AB 1689A 23459 2346B 2348A 235AB 23689 24568 249AB
 2569A 2589B 268AB 3458B 3469A 3568A 3569B 389AB 456AB 4589A 4689B
 D_8 : 0123B 01245 01269 0127A 0134A 01356 01379 01467 0149B 0157B 0159A
 016AB 02346 02357 0239A 02479 024AB 0256A 0259B 0267B 03459 0347B
 035AB 0367A 0369B 0456B 0457A 0469A 05679 079AB 12347 12359 1236A
 1246B 1249A 12567 125AB 1279B 1345B 13469 1357A 1367B 139AB 1456A
 14579 147AB 1569B 1679A 2345A 2349B 2356B 23679 237AB 24569 2457B
 2467A 2579A 269AB 34567 346AB 3479A 3569A 3579B 459AB 4679B 567AB
 D_9 : 01238 0124B 01257 0126A 01345 01367 013AB 01468 0147A 0156B 0158A
 0178B 0234A 02356 0237B 02458 02467 025AB 0268B 0278A 0346B 03478
 0357A 0358B 0368A 0456A 0457B 048AB 05678 067AB 12346 1235B 1237A
 1245A 12478 12568 1267B 128AB 1347B 1348A 1356A 13578 1368B 14567
 1458B 146AB 157AB 1678A 23457 2348B 2358A 23678 236AB 2456B 2468A
 247AB 2567A 2578B 34568 345AB 3467A 3567B 378AB 4578A 4678B 568AB
 D_A : 01235 01248 01267 0129B 01349 0136B 01378 01456 0147B 01579 0158B
 01689 02347 02369 0238B 02459 0246B 0256B 0257B 02789 0345B 03468
 03567 03589 0379B 0457B 04679 0489B 0569B 0678B 1234B 12368 12379
 12457 12469 1256B 12589 1278B 1345B 13467 13569 1357B 1389B 1459B
 1468B 1478B 1567B 1679B 23456 23489 23578 2359B 2367B 2458B 24678
 2479B 25679 2689B 34579 3469B 3478B 3568B 36789 4567B 45689 5789B
 D_B : 01236 01249 0125A 0127B 01348 01359 0137A 01457 0146A 0156B 01679
 0189A 02345 02379 0238A 0246B 0247A 02567 02589 0269A 03467 0349A
 0356A 0357B 03689 04569 0458A 04789 0579A 0678A 1234A 12357 12389
 12458 12467 12569 1268A 1279A 13456 13479 1358A 1367B 1369A 1459A
 14689 1478A 1567A 15789 23469 23478 23568 2359A 2367A 2456A 24579
 2489A 2578A 26789 3457A 34589 3468A 35679 3789A 45678 4679A 5689A

Overlarge Set 12

123	234	134	124	129	126	127	120	125	128	129	128
478	579	507	560	365	374	384	398	346	345	435	654
596	608	689	879	708	809	590	645	907	076	786	037
$\mu_{A\bar{C}B}$	$\mu_{A\bar{V}B}$	$\nu_{A\bar{U}B}$	$\nu_{A\bar{C}B}$	$\mu_{A\bar{C}B}$	$\mu_{A\bar{C}B}$	$\nu_{A\bar{U}B}$	$\xi_{A\bar{U}B}$	$\nu_{A\bar{C}B}$	$\xi_{A\bar{V}B}$	$\mu_{0\bar{V}B}$	$\mu_{9\bar{V}A}$
D_0	D_1	D_2	D_3	D_4	D_5	D_6	D_7	D_8	D_9	D_A	D_B

D_0 : 12349 12358 12367 123AB 12456 1247B 1248A 1257A 1259B 1268B 1269A
 12789 13457 1346A 1348B 1356B 1359A 13689 1378A 1379B 14589 145AB
 14678 1469B 1479A 15679 1568A 1578B 167AB 189AB 2345B 2346B 2347A
 2356A 23579 2369B 2378B 2389A 2457B 2459A 24679 246AB 2489B 2567B
 25689 258AB 2678A 279AB 34569 3458A 3467B 34789 349AB 35678 357AB
 3589B 3679A 368AB 4567A 4568B 4579B 4689A 478AB 569AB 5789A 6789B
 D_1 : 02349 0235A 0236B 02378 02456 0247B 0248A 02579 0258B 0267A 02689
 029AB 03457 0346A 0348B 0356B 0359B 03679 037AB 0389A 04589 045AB
 04678 0469B 0479A 0567B 0569A 0578A 068AB 0789B 23458 23467 234AB
 23569 2357B 2368A 2379A 2389B 2457A 2459B 2468B 2469A 24789 25678
 256AB 2589A 2679B 278AB 3456B 3459A 34689 3478A 3479B 3567A 35789
 358AB 3678B 369AB 45679 4568A 4578B 467AB 489AB 5689B 579AB 6789A
 D_2 : 01346 0135A 0137B 01389 0145B 01479 0148A 01569 01578 0167A 0168B
 019AB 03458 0347A 0349B 0356B 03579 03678 0369A 038AB 04567 0459A
 04689 046AB 0478B 0568A 057AB 0589B 0679B 0789A 13459 13478 134AB
 13567 1358B 1368A 1369B 1379A 14568 1457A 1467B 1469A 1489B 156AB
 1579B 1589A 16789 178AB 3456A 3457B 34679 3468B 3489A 35689 3578A
 359AB 367AB 3789B 4569B 45789 458AB 4678A 479AB 5678B 5679A 689AB

D_3 : 01249 0125A 0126B 01278 01457 0146A 0148B 01568 0159B 01679 017AB
 0189A 0245B 0246B 0247A 02567 02589 0269A 0279B 028AB 04569 0458A
 0467B 04789 049AB 056AB 0579B 0579A 0678A 0689B 1245B 12467 124AB
 12569 1257B 1268A 1279A 1289B 1456B 1459A 14689 1478A 1479B 1567A
 15789 158AB 1678B 169AB 2456A 24579 2469B 2478B 2489A 2568B 2578A
 259AB 26789 267AB 45678 457AB 4589B 4679A 468AB 5679B 5689A 789AB
 D_4 : 01239 01256 0127B 0128A 01357 0136A 0138B 01589 015AB 01678 0169B
 0179A 0235B 0236B 0237A 0257B 0259A 02679 026AB 0289B 03569 0358A
 0367B 03789 039AB 0567A 0568B 0579B 0689A 078AB 1235A 1236B 1237B
 12579 1258B 1267A 12689 129AB 1356B 1359B 13679 137AB 1389A 1567B
 1569A 1578A 168AB 1789B 23567 23589 2369A 2379B 238AB 2568A 2569B
 257AB 2678B 2789A 356AB 3578B 3579A 3678A 3689B 56789 589AB 679AB
 D_5 : 01236 01247 0128B 0129A 0134B 0137A 0139B 01469 014AB 0167B 0168A
 01789 0234B 02379 0238A 0246A 0248B 02678 0269B 027AB 03467 0349A
 03689 036AB 0378B 0468B 0478A 0479B 0679A 089AB 1234A 1237B 1238B
 1246B 1249B 12679 126AB 1278A 1346B 13479 13678 1369A 138AB 1467A
 1478B 1489A 1689B 179AB 23469 23478 2367A 2368B 239AB 2467B 2479A
 248AB 2689A 2789B 3468A 347AB 3489B 3679B 3789A 46789 469AB 678AB
 D_6 : 01237 01244 0125B 01289 0134B 0135B 0139A 01459 01478 0157A 0179B
 018AB 0234B 02359 023AB 02457 0249B 0258A 0278B 0279A 0345A 03479
 0357B 0378A 0389B 0458B 047AB 0489A 05789 059AB 12345 1238A 1239B
 12479 1248B 12578 1259A 127AB 1347A 13489 13579 135AB 1378B 1457B
 1458A 149AB 1589B 1789A 2347B 2349A 2357A 2358B 23789 24589 245AB
 2478A 2579B 289AB 34578 3459B 348AB 3589A 379AB 4579A 4789B 578AB
 D_7 : 01234 01259 01268 012AB 0135B 01369 0138A 01458 0146B 0149A 0156A
 0189B 02358 0236A 0239B 0245A 02469 0248B 0256B 0289A 03456 03489
 034AB 0359A 0368B 0459B 0468A 05689 058AB 069AB 12356 1238B 1239A
 1245B 1246A 12489 1258A 1269B 1345A 1346B 1349B 13589 136AB 14569
 148AB 1568B 159AB 1689A 23459 2346B 2348A 235AB 23689 24568 249AB
 2569A 2589B 268AB 3458B 3469A 3568A 3569B 389AB 456AB 4589A 4689B
 D_8 : 0123B 01245 01269 0127A 0134A 01356 01379 01467 0149B 0157B 0159A
 016AB 02346 02357 0239A 02479 024AB 0256A 0259B 0267B 03459 0347B
 035AB 0367A 0369B 0456B 0457A 0469A 05679 079AB 12347 12359 1236A
 1246B 1249A 12567 125AB 1279B 1345B 13469 1357A 1367B 139AB 1456A
 14579 147AB 1569B 1679A 2345A 2349B 2356B 23679 237AB 24569 2457B
 2467A 2579A 269AB 34567 346AB 3479A 3569A 3579B 459AB 4679B 567AB
 D_9 : 01238 0124B 01257 0126A 01345 01367 013AB 01468 0147A 0156B 0158A
 0178B 0234A 02356 0237B 02458 02467 025AB 0268B 0278A 0346B 03478
 0357A 0358B 0368A 0456A 0457B 048AB 05678 067AB 12346 1235B 1237A
 1245A 12478 12568 1267B 128AB 1347B 1348A 1356A 1357B 1368B 14567
 1458B 146AB 157AB 1678A 23457 2348B 2358A 23678 236AB 2456B 2468A
 247AB 2567A 2578B 34568 345AB 3467A 3567B 378AB 4578A 4678B 568AB
 D_A : 01235 01248 01267 0129B 01349 0136B 01378 01456 0147B 01579 0158B
 01689 02347 02369 0238B 02459 0246B 02568 0257B 02789 0345B 03468
 03567 03589 0379B 04578 04679 0489B 0569B 0678B 1234B 1236B 1237B
 12457 12469 1256B 12589 1278B 1345B 13467 13569 1357B 1389B 1459B
 1468B 14789 1567B 1679B 23456 23489 23578 2359B 2367B 2458B 24678
 2479B 25679 2689B 34579 3469B 3478B 3568B 36789 4567B 45689 5789B
 D_B : 0123A 01246 01258 01279 01347 01359 0136B 0145A 0148B 01567 0169A
 0178A 02345 02367 02389 02478 0249A 02569 0257A 0268A 03469 0348A
 0356A 03578 0379A 0456B 04579 0467A 0589A 06789 12348 12357 12369
 12459 1247A 1256A 1267B 1289A 13456 1349A 1358A 1367A 1378B 1457B
 14679 1468A 15689 1579A 2346A 23479 2356B 2359A 2378A 24567 2458A
 24689 25789 2679A 3457A 34589 34678 35679 3689A 4569A 4789A 5678A

Overlarge Set 13

123	234	134	124	129	126	127	120	125	128	129	120
478	579	507	560	365	374	384	398	346	345	435	435
596	608	689	879	708	809	590	645	907	076	786	876
$\mu_A \zeta_B$	$\mu_A \zeta_B$	$\nu_A \mu_B$	$\nu_A \zeta_B$	$\mu_A \zeta_B$	$\mu_A \nu_B$	$\nu_A \mu_B$	$\zeta_A \mu_B$	$\nu_A \zeta_B$	$\zeta_A \nu_B$	$\mu_0 \nu_B$	$\mu_0 \zeta_A$
D_0	D_1	D_2	D_3	D_4	D_5	D_6	D_7	D_8	D_9	D_A	D_B

D_0 :	12349	12358	12367	123AB	12456	1247B	1248A	1257A	1259B	1268B	1269A
	12789	13457	1346A	1348B	1356B	1359A	13689	1378A	1379B	14589	145AB
	14678	1469B	1479A	15679	1568A	1578B	167AB	189AB	2345B	2346B	2347A
	2356A	23579	2369B	2378B	2389A	24578	2459A	24679	246AB	2489B	2567B
	25689	258AB	2678A	279AB	34569	3458A	3467B	34789	349AB	35678	357AB
	3589B	3679A	368AB	4567A	4568B	4579B	4689A	478AB	569AB	5789A	6789B
D_1 :	02345	0236B	02379	0238A	0246A	0247B	02489	02569	0257A	0258B	02678
	029AB	03467	0348B	0349A	0356A	03578	0359B	03689	037AB	04568	04579
	045AB	0469B	0478A	0567B	0589A	0679A	068AB	0789B	23469	23478	234AB
	2356B	2357B	2359A	2367A	2389B	24567	2458A	2459B	2468B	2479A	256AB
	25789	2679B	2689A	278AB	3456B	3457A	34589	3468A	3479B	35679	358AB
	3678B	369AB	3789A	4569A	4578B	46789	467AB	489AB	5678A	5689B	579AB
D_2 :	01346	0135A	0137B	01389	0145B	01479	0148A	01569	01578	0167A	0168B
	019AB	03458	0347A	0349B	0356B	03579	03678	0369A	038AB	04567	0459A
	04689	046AB	0478B	0568A	057AB	0589B	0679B	0789A	13459	13478	134AB
	13567	1358B	1368A	1369B	1379A	14568	1457A	1467B	1469A	1489B	156AB
	1579B	1589A	16789	178AB	3456A	3457B	34679	3468B	3489A	35689	3578A
	359AB	367AB	3789B	4569B	45789	458AB	4678A	479AB	5678B	5679A	689AB
D_3 :	01249	0125A	0126B	01278	01457	0146A	0148B	01568	0159B	01679	017AB
	0189A	0245B	0246B	0247A	02567	02589	0269A	0279B	028AB	04569	0458A
	0467B	04789	049AB	056AB	057AB	0579A	0678A	0689B	12458	12467	124AB
	12569	1257B	1268A	1279A	1289B	1456B	1459A	14689	1478A	1479B	1567A
	15789	158AB	1678B	169AB	2456A	24579	2469B	2478B	2489A	2568B	2578A
	259AB	26789	267AB	45678	457AB	4589B	4679A	468AB	5679B	5689A	789AB
D_4 :	01239	01256	0127B	0128A	01357	0136A	0138B	01589	015AB	01678	0169B
	0179A	0235B	0236B	0237A	02578	0259A	02679	026AB	0289B	03569	0358A
	0367B	03789	039AB	0567A	0568B	0579B	0689A	078AB	1235A	1236B	1237B
	12579	1258B	1267A	12689	129AB	13568	1359B	13679	137AB	1389A	1567B
	1569A	1578A	168AB	1789B	23567	23589	2369A	2379B	238AB	2568A	2569B
	257AB	2678B	2789A	356AB	3578B	3579A	3678A	3689B	56789	589AB	679AB
D_5 :	0123A	01246	01279	0128B	01347	01368	0139B	01489	014AB	0167B	0169A
	0178A	0234B	02367	02389	02478	0249A	0268A	0269B	027AB	03469	0348A
	036AB	0378B	0379A	0467A	0468B	0479B	06789	089AB	12348	12369	1237B
	1247A	1249B	12678	126AB	1289A	1346B	1349A	1367A	13789	138AB	14679
	1468A	1478B	1689B	179AB	2346A	23479	2368B	2378A	239AB	2467B	24689
	248AB	2679A	2789B	34678	347AB	3489B	3679B	3689A	469AB	4789A	678AB
D_6 :	01237	0124A	0125B	01289	0134B	01358	0139A	01459	01478	0157A	0179B
	018AB	02348	02359	023AB	02457	0249B	0258A	0278B	0279A	0345A	03479
	0357B	0378A	0389B	0458B	047AB	0489A	05789	059AB	12345	1238A	1239B
	12479	1248B	12578	1259A	127AB	1347A	13489	13579	135AB	1378B	1457B
	1458A	149AB	1589B	1789A	2347B	2349A	2357A	2358B	23789	24589	245AB
	2478A	2579B	289AB	34578	3459B	348AB	3589A	379AB	4579A	4789B	578AB
D_7 :	01234	01259	0126B	012AB	0135B	01369	0138A	01458	0146B	0149A	0156A
	0189B	02358	0236A	0239B	02454	02469	0248B	0256B	0289A	03456	03489
	034AB	0359A	0368B	0459B	0468A	05689	058AB	069AB	12356	1238B	1239A
	1245B	1246A	12489	1258A	1269B	1345A	1346B	1349B	13589	136AB	14569
	148AB	1568B	159AB	1689A	23459	2346B	2348A	235AB	23689	24568	249AB
	2569A	2589B	268AB	3458B	3469A	3568A	3569B	389AB	456AB	4589A	4689B
D_8 :	0123B	01245	01269	0127A	0134A	01356	01379	01467	0149B	0157B	0159A
	016AB	02346	02357	0239A	02479	024AB	0256A	0259B	0267B	03459	0347B
	035AB	0367A	0369B	0456B	0457A	0469A	05679	079AB	12347	12359	1236A
	1246B	1249A	12567	125AB	1279B	1345B	13469	1357A	1367B	139AB	1456A
	14579	147AB	1569B	1679A	2345A	2349B	2356B	23679	237AB	24569	2457B
	2467A	2579A	269AB	34567	346AB	3479A	3569A	3579B	459AB	4679B	567AB

D_9 : 01238 0124B 01257 0126A 01345 01367 013AB 01468 0147A 0156B 0158A
 0178B 0234A 02356 0237B 02458 02467 025AB 0268B 0278A 0346B 03478
 0357A 0358B 0368A 0456A 0457B 048AB 0567B 067AB 12346 1235B 1237A
 1245A 1247B 1256B 1267B 128AB 1347B 1348A 1356A 1357B 1368B 14567
 1458B 146AB 157AB 1678A 23457 2348B 2358A 23678 236AB 2456B 2468A
 247AB 2567A 2578B 3456B 345AB 3467A 3567B 378AB 4578A 4678B 568AB
 D_A : 01235 01248 01267 0129B 01349 0136B 0137B 01456 0147B 01579 0158B
 01689 02347 02369 0238B 02459 0246B 0256B 0257B 0278B 0345B 0346B
 03567 03589 0379B 0457B 04679 0489B 0569B 0678B 1234B 1236B 1237B
 12457 12469 1256B 12589 1278B 1345B 13467 13569 1357B 1389B 1459B
 1468B 14789 1567B 1679B 23456 23489 2357B 2359B 2367B 2458B 24678
 2479B 25679 2689B 34579 3469B 3478B 3568B 36789 4567B 45689 5789B
 D_B : 01236 01247 01258 0129A 01348 01359 0137A 0145A 01469 01567 0168A
 01789 02349 0235A 02378 02456 0248A 02579 0267A 02689 03457 0346A
 03568 03679 0389A 04589 04678 0479A 0569A 0578A 1234A 12357 12389
 12459 12468 1256A 12679 1278A 13456 13479 1358A 13678 1369A 14578
 1467A 1489A 15689 1579A 23458 23467 23569 2368A 2379A 2457A 2469A
 24789 25678 2589A 3459A 34689 3478A 3567A 35789 45679 4568A 6789A

Overlarge Set 14

123	234	134	124	129	126	127	120	125	128	129	128
478	579	507	560	365	374	384	398	346	345	438	654
596	608	689	879	708	809	590	645	907	076	567	037
$\mu_{A\bar{C}B}$	$\xi_{A'V'B}$	$\xi_{A\bar{A}B}$	$\nu_{A\bar{C}B}$	$\mu_{A\bar{C}B}$	$\mu_{A\bar{C}B}$	$\nu_{A'V'B}$	$\xi_{A\bar{A}B}$	$\nu_{A\bar{C}B}$	$\xi_{A'V'B}$	$\mu_{0\bar{C}B}$	$\mu_{9\bar{V}A}$
D_0	D_1	D_2	D_3	D_4	D_5	D_6	D_7	D_8	D_9	D_A	D_B
D_0	12349 12358 12367 123AB 12456 1247B 1248A 1257A 1259B 1268B 1269A 12789 13457 1346A 1348B 1356B 1359A 1368B 1378A 1379B 14589 145AB 14678 1469B 1479A 15679 1568A 1578B 167AB 189AB 2345B 2346B 2347A 2356A 23579 2369B 2378B 2389A 2457B 2459A 24679 246AB 2489B 2567B 25689 258AB 2678A 279AB 34569 3458A 3467B 34789 349AB 35678 357AB 3589B 3679A 368AB 4567A 4568B 4579B 4689A 478AB 569AB 5789A 6789B	D_1	02347 0235A 02369 0238B 02459 0246B 0248A 0256B 0257B 0267A 02789 029AB 0345B 0346A 0349B 0356B 03579 0367B 037AB 0389A 04567 045AB 04689 0478B 0479A 0569A 0578A 0589B 0679B 068AB 23456 23489 234AB 23578 2359B 2367B 2368A 2379A 2457A 2458B 24678 2469A 2479B 25679 256AB 2589A 2689B 278AB 3457B 3459A 34679 3468B 3478A 3567A 35689 358AB 369AB 3789B 4568A 4569B 45789 467AB 489AB 5678B 579AB 6789A	D_2	01349 0135A 0136B 0137B 01456 0147B 0148A 01579 0158B 0167A 01689 019AB 0345B 0346B 0347A 03567 03589 0369A 0379B 038AB 04578 0459A 04679 046AB 0489B 0568A 0569B 057AB 0678B 0789A 1345B 13467 134AB 13569 1357B 1368A 1379A 1389B 1457A 1459B 1468B 1469A 1478B 15678 156AB 1589A 1679B 178AB 3456A 34579 3469B 3478B 3489A 3568B 3578A 359AB 36789 367AB 4567B 45689 458AB 4678A 479AB 5679A 5789B 689AB	D_3	01249 0125A 0126B 0127B 01457 0146A 0148B 0156B 0159B 01679 017AB 0189A 0245B 0246B 0247A 02567 02589 0269A 0279B 028AB 04569 0458A 0467B 0478B 049AB 056AB 0578B 0579A 0678A 0689B 12458 12467 124AB 12569 1257B 1268A 1279A 1289B 1456B 1459A 14689 1478A 1479B 1567A 15789 158AB 1678B 169AB 2456A 24579 2469B 2478B 2489A 2568B 2578A 259AB 2678S 267AB 4567B 457AB 4589B 4679A 468AB 5679B 5689A 789AB	D_4	01239 01256 0127B 0128A 01357 0136A 0138B 0158B 0159B 01678 0169B 0179A 0235B 0236B 0237A 0257B 0259A 02679 026AB 0289B 03569 0358A 0367B 03789 039AB 0567A 0568B 0579B 0689A 078AB 1235A 1236B 1237B 12579 1258B 1267A 12689 129AB 1356B 1359B 13679 137AB 1389A 1567B 1569A 1578A 168AB 1789B 23567 23589 2369A 2379B 238AB 2568A 2569B 257AB 2678B 2789A 356AB 3578B 3579A 3678A 3689B 56789 589AB 679AB	D_5	01236 01247 0128B 0129A 01348 0137A 0139B 01469 014AB 0167B 0168A 01789 0234B 02379 0238A 0246A 02489 02678 0269B 027AB 03467 0349A 03689 036AB 0378B 0468B 0478A 0479B 0679A 089AB 1234A 1237B 12389 12468 1249B 12679 126AB 1278A 1346B 13479 13678 1369A 138AB 1467A 1478B 1489A 1689B 179AB 23469 23478 2367A 2368B 239AB 2467B 2479A 248AB 2689A 2789B 3468A 347AB 3489B 3679B 3789A 46789 469AB 678AB

D_6 : 01237 0124A 0125B 01289 0134B 0135B 0139A 01459 01478 0157A 0179B
 018AB 02348 02359 023AB 02457 0249B 0258A 0278B 0279A 0345A 03479
 0357B 0378A 0389B 0458B 047AB 0489A 05789 059AB 12345 1238A 1239B
 12479 1248B 12578 1259A 127AB 1347A 13489 13579 135AB 1378B 1457B
 1458A 149AB 1589B 1789A 2347B 2349A 2357A 2358B 23789 24589 245AB
 2478A 2579B 289AB 3457B 3459B 348AB 3589A 379AB 4579A 4789B 578AB
 D_7 : 01234 01259 01268 012AB 0135B 01369 0138A 01458 0146B 0149A 0156A
 0189B 02358 0236A 0239B 0245A 02469 0248B 0256B 0289A 03456 03489
 034AB 0359A 0368B 0459B 0468A 05689 058AB 069AB 12356 1238B 1239A
 1245B 1246A 12489 1258A 1269B 1345A 13468 1349B 13589 136AB 14569
 148AB 1568B 159AB 1689A 23459 2346B 2348A 235AB 23689 24568 249AB
 2569A 2589B 268AB 3458B 3469A 3568A 3569B 389AB 456AB 4589A 4689B
 D_8 : 0123B 01245 01269 0127A 0134A 01356 01379 01467 0149B 0157B 0159A
 016AB 02346 02357 0239A 02479 024AB 0256A 0259B 0267B 03459 0347B
 035AB 0367A 0369B 0456B 0457A 0469A 05679 079AB 12347 12359 1236A
 1246B 1249A 12567 125AB 1279B 1345B 13469 1357A 1367B 139AB 1456A
 14579 147AB 1569B 1679A 2345A 2349B 2356B 23679 237AB 24569 2457B
 2467A 2579A 269AB 34567 346AB 3479A 3569A 3579B 459AB 4679B 567AB
 D_9 : 01238 0124B 01257 0126A 01345 01367 013AB 01468 0147A 0156B 0158A
 0178B 0234A 02356 0237B 02458 02467 025AB 0268B 0278A 0346B 03478
 0357A 0358B 0368A 0456A 0457B 048AB 05678 067AB 12346 1235B 1237A
 1245A 12478 12568 1267B 128AB 1347B 1348A 1356A 13578 1368B 14567
 1458B 146AB 157AB 1678A 23457 2348B 2358A 23678 236AB 2456B 2468A
 247AB 2567A 2578B 3456B 345AB 3467A 3567B 378AB 4578A 4678B 568AB
 D_A : 01235 01248 01267 0129B 01346 0137B 01389 0145B 01479 01569 01578
 0168B 02349 0236B 02378 02456 0247B 02579 0258B 02689 03457 0348B
 03568 0359B 03679 04589 04678 0469B 0567B 0789B 1234B 1236B 1237B
 12457 12469 1256B 12589 1278B 13459 13478 13567 1358B 1369B 14568
 1467B 1489B 1579B 16789 23458 23467 23569 2357B 2389B 2456B 2468B
 24789 25678 2679B 3456B 34689 3479B 35789 3678B 45679 4578B 5689B
 D_B : 0123A 01246 01258 01279 01347 01359 01368 0145A 01489 01567 0169A
 0178A 02345 02367 02389 02478 0249A 02569 0257A 0268A 03469 0348A
 0356A 0357B 0379A 0456B 04579 0467A 0589A 06789 12348 12357 12369
 12459 1247A 1256A 1267B 1289A 13456 1349A 1358A 1367A 13789 14578
 14679 1468A 15689 1579A 2346A 23479 23568 2359A 2378A 24567 2458A
 24689 25789 2679A 3457A 34589 34678 35679 3689A 4569A 4789A 5678A

Overlarge Set 15

123	234	134	124	129	126	128	125	120	127	126	128
478	579	507	560	365	374	345	348	379	364	349	654
596	608	689	879	708	809	097	906	645	580	758	037
$\mu_A \zeta_B$	$\mu_A \nu_B$	$\zeta_A \mu_B$	$\mu_A \zeta_B$	$\mu_A \zeta_B$	$\mu_A \zeta_B$	$\zeta_A \nu_B$	$\nu_A \zeta_B$	$\zeta_A \mu_B$	$\nu_A \mu_B$	$\mu_0 \nu_B$	$\mu_9 \nu_A$
D_0	D_1	D_2	D_3	D_4	D_5	D_6	D_7	D_8	D_9	D_A	D_B

D_0 : 12349 12358 12367 123AB 12456 1247B 1248A 1257A 1259B 1268B 1269A
 12789 13457 1346A 1348B 1356B 1359A 13689 1378A 1379B 14589 145AB
 14678 1469B 1479A 15679 1568B 1578B 167AB 189AB 2345B 2346B 2347A
 2356A 23579 2369B 2378B 2389A 2457B 2459A 24679 246AB 2489B 2567B
 25689 258AB 2678A 279AB 34569 3458A 3467B 34789 349AB 35678 357AB
 3589B 3679A 368AB 4567A 4568B 4579B 4689A 478AB 569AB 5789A 6789B
 D_1 : 02349 0235A 0236B 02378 02456 0247B 0248A 02579 0258B 0267A 02689
 029AB 03457 0346A 0348B 0356B 0359B 03679 037AB 0389A 04589 045AB
 04678 0469B 0479A 0567B 0569A 0578A 068AB 0789B 23458 23467 234AB
 23569 2357B 2368A 2379A 2389B 2457A 2459B 2468B 2469A 24789 25678
 256AB 2589A 2679B 278AB 3456B 3459A 34689 3478A 3479B 3567A 35789
 358AB 3678B 369AB 45679 4568A 4578B 467AB 489AB 5689B 579AB 6789A
 D_2 : 01349 0135A 0136B 0137B 01456 0147B 0148A 01579 0158B 0167A 01689
 019AB 0345B 0346B 0347A 03567 03589 0369A 0379B 038AB 04578 0459A
 04679 046AB 0489B 0568A 0569B 057AB 0678B 0789A 13458 13467 134AB
 13569 1357B 1368A 1379A 1389B 1457A 1459B 1468B 1469A 14789 15678
 156AB 1589A 1679B 178AB 3456A 3457B 3469B 3478B 3489A 3568B 3578A
 359AB 36789 367AB 4567B 45689 458AB 4678A 479AB 5679A 5789B 689AB

D_3 : 01248 0125A 01267 0129B 0145B 0146A 01479 01569 01578 0168B 017AB
 0189A 02459 0246B 0247A 0256B 0257B 0269A 02789 028AB 04567 0458A
 04689 0478B 049AB 056AB 0579A 0589B 0678A 0679B 12457 12469 124AB
 1256B 12589 1268A 1278B 1279A 1456B 1459A 1467B 1478A 1489B 1567A
 1579B 158AB 16789 169AB 2456A 2458B 24678 2479B 2489A 25679 2578A
 259AB 267AB 2689B 4569B 45789 457AB 4679A 468AB 5678B 5689A 789AB
 D_4 : 01239 01256 0127B 0128A 01357 0136A 0138B 01589 015AB 01678 0169B
 0179A 0235B 02368 0237A 02578 0259A 02679 026AB 0289B 03569 0358A
 0367B 03789 039AB 0567A 0568B 0579B 0689A 078AB 1235A 1236B 12378
 12579 1258B 1267A 12689 129AB 1356B 1359B 13679 137AB 1389A 1567B
 1569A 1578A 168AB 1789B 23567 2358B 2369A 2379B 238AB 2568A 2569B
 257AB 2678B 2789A 356AB 3578B 3579A 3678A 3689B 56789 589AB 679AB
 D_5 : 01236 01247 0128B 0129A 01348 0137A 0139B 01469 014AB 0167B 0168A
 01789 0234B 02379 0238A 0246A 02489 02678 0269B 027AB 03467 0349A
 03689 036AB 0378B 0468B 0478A 0479B 0679A 089AB 1234A 1237B 12389
 1246B 1249B 12679 126AB 1278A 1346B 13479 13678 1369A 138AB 1467A
 1478B 1489A 1689B 179AB 23469 23478 2367A 2368B 239AB 2467B 2479A
 248AB 2689A 2789B 3468A 347AB 3489B 3679B 3789A 46789 469AB 678AB
 D_6 : 01238 0124B 01259 0127A 01345 01379 013AB 01478 0149A 0157B 0158A
 0189B 0234A 02357 0239B 02458 02479 025AB 0278B 0289A 0347B 03489
 0358B 0359A 0378A 0457A 0459B 048AB 05789 079AB 12347 1235B 1239A
 1245A 12489 12578 1279B 128AB 134AB 1349B 1357A 13589 1378B 14579
 1458B 147AB 159AB 1789A 23459 2348B 2358A 23789 237AB 2457B 2478A
 249AB 2579A 2589B 34578 345AB 3479A 3579B 389AB 4589A 4789B 578AB
 D_7 : 01238 01245 0126A 01289 0134A 01358 01369 01468 0149B 0156B 0159A
 018AB 02348 02356 0239A 02469 024AB 0258A 0259B 0268B 03459 0346B
 035AB 0368A 0389B 0456A 0458B 0489A 05689 069AB 12346 12359 1238A
 1248B 1249A 1256B 125AB 1269B 1345B 13489 1356A 1368B 139AB 14569
 1458A 146AB 1589B 1689A 2345A 2349B 2358B 23689 236AB 2456B 24589
 2468A 2569A 289AB 3456B 3469A 348AB 3569B 3589A 459AB 4689B 568AB
 D_8 : 01234 01257 01269 012AB 0135B 01367 0139A 01459 0146B 0147A 0156A
 0179B 02359 0236A 0237B 0245A 02467 0249B 0256B 0279A 03456 03479
 034AB 0357A 0369B 0457B 0469A 05679 059AB 067AB 12356 1237A 1239B
 1245B 1246A 12479 1259A 1267B 1345A 13469 1347B 13579 136AB 14567
 149AB 1569B 157AB 1679A 23457 2346B 2349A 235AB 23679 24569 247AB
 2567A 2579B 269AB 3459B 3467A 3567B 3569A 379AB 456AB 4579A 4679B
 D_9 : 01237 0124A 0125B 01268 0134B 01356 0138A 01458 01467 0157A 016AB
 0178B 02346 02358 023AB 02457 0248B 0256A 0267B 0278A 0345A 03478
 0357B 0367A 0368B 0456B 0468A 047AB 05678 058AB 12345 1236A 1238B
 1246B 12478 12567 1258A 127AB 1346B 1347A 1357B 135AB 1367B 1456A
 1457B 148AB 1568B 1678A 2347B 2348A 2356B 2357A 23678 2456B 245AB
 2467A 2578B 268AB 34567 3458B 346AB 3568A 378AB 4578A 4678B 567AB
 D_A : 01235 01249 0126B 0127B 01346 0137B 01389 01457 0148B 0156B 0159B
 01679 02347 02369 0238B 0245B 0246B 02567 02589 0279B 03458 0349B
 0356B 03579 0367B 04569 0467B 0478B 0578B 0689B 1234B 1236B 12379
 1245B 12467 12569 1257B 1289B 13459 13478 13567 1358B 1369B 1456B
 14689 1479B 15789 1678B 23456 23489 23578 2359B 2367B 24579 2469B
 2478B 2568B 26789 3457B 34679 3468B 35689 3789B 45678 4589B 5679B
 D_B : 0123A 01246 01258 01279 01347 01359 0136B 0145A 01489 01567 0169A
 0178A 02345 02367 02389 02478 0249A 02569 0257A 0268A 03469 0348A
 0356A 03578 0379A 04568 04579 0467A 0589A 06789 12348 12357 12369
 12459 1247A 1256A 1267B 1289A 13456 1349A 1358A 1367A 1378B 14578
 14679 1468A 15689 1579A 2346A 2347B 2356B 2359A 2378A 24567 2458A
 24689 25789 2679A 3457A 34589 34678 35679 3689A 4569A 4789A 5678A

Overlarge Set 16

123	234	134	124	129	126	128	125	120	127	126	120
478	579	507	560	365	374	345	348	379	364	349	438
596	608	689	879	708	809	097	906	645	580	758	657
$\mu_A \xi_B$	$\mu_A \nu_B$	$\xi_A \nu_B$	$\mu_A \xi_B$	$\mu_A \xi_B$	$\mu_A \nu_B$	$\xi_A \nu_B$	$\nu_A \xi_B$	$\xi_A \mu_B$	$\nu_A \mu_B$	$\mu_0 \nu_B$	$\mu_9 \nu_A$
D_0	D_1	D_2	D_3	D_4	D_5	D_6	D_7	D_8	D_9	D_A	D_B

D_0 :	12349	12358	12367	123AB	12456	1247B	1248A	1257A	1259B	1268B	1269A
	12789	13457	1346A	1348B	1356B	1359A	13689	1378A	1379B	14589	145AB
	14678	1469B	1479A	15679	1568A	1578B	167AB	189AB	2345B	2346B	2347A
	2356A	23579	2369B	2378B	2389A	24578	2459A	24679	246AB	2489B	2567B
	25689	258AB	2678A	279AB	34569	3458A	3467B	34789	349AB	35678	357AB
	3589B	3679A	368AB	4567A	4568B	4579B	4689A	478AB	569AB	5789A	6789B
D_1 :	02349	0235A	0236B	02378	02456	0247B	0248A	02579	0258B	0267A	02689
	029AB	03457	0346A	0348B	0356B	0359B	03679	037AB	0389A	04589	045AB
	04678	0469B	0479A	0567B	0569A	0578A	068AB	0789B	2345B	23467	234AB
	23569	2357B	2368A	2379A	2389B	2457A	2459B	2468B	2469A	24789	25678
	256AB	2589A	2679B	278AB	3456B	3459A	34689	3478A	3479B	3567A	35789
	358AB	3678B	369AB	45679	4568A	4578B	467AB	489AB	5689B	579AB	6789A
D_2 :	01348	01359	0136B	0137A	0145A	01469	0147B	01567	0158B	0168A	01789
	019AB	0345B	03467	0349A	0356A	03578	03689	0379B	038AB	04568	04579
	046AB	0478A	0489B	0569B	057AB	0589A	0678B	0679A	13456	13479	134AB
	1357B	1358A	13678	1369A	1389B	14578	1459B	1467A	1468B	1489A	15689
	156AB	1579A	1679B	178AB	3457A	34589	3468A	3469B	3478B	35679	3568B
	359AB	367AB	3789A	4567B	4569A	458AB	46789	479AB	5678A	5789B	689AB
D_3 :	01248	0125A	01267	0129B	0145B	0146A	01479	01569	01578	0168B	017AB
	0189A	02459	0246B	0247A	0256B	0257B	0269A	02789	028AB	04567	0458A
	04689	0478B	049AB	056AB	0579A	0589B	0678A	0679B	12457	12469	124AB
	1256B	12589	1268A	1278B	1279A	1456B	1459A	1467B	1478A	1489B	1567A
	1579B	158AB	16789	169AB	2456A	2458B	2467B	2479B	2489A	25679	2578A
	259AB	267AB	2689B	4569B	45789	457AB	4679A	468AB	5678B	5689A	789AB
D_4 :	01239	01256	0127B	0128A	01357	0136A	0138B	01589	015AB	0167B	0169B
	0179A	0235B	0236B	0237A	02578	0259A	02679	026AB	0289B	03569	0358A
	0367B	03789	039AB	0567A	0568B	0579B	0689A	078AB	1235A	1236B	12378
	12579	1258B	1267A	12689	129AB	1356B	1359B	13679	137AB	1389A	1567B
	1569A	1578A	168AB	1789B	23567	23589	2369A	2379B	238AB	2568A	2569B
	257AB	2678B	2789A	356AB	3578B	3579A	3678A	3689B	56789	589AB	679AB
D_5 :	0123A	01246	01279	0128B	01347	01368	0139B	01489	014AB	0167B	0169A
	0178A	0234B	02367	02389	02478	0249A	0268A	0269B	027AB	03469	0348A
	036AB	0378B	0379A	0467A	0468B	0479B	06789	089AB	12348	12369	1237B
	1247A	1249B	12678	126AB	1289A	1346B	1349A	1367A	13789	138AB	14679
	1468A	1478B	1689B	179AB	2346A	23479	2368B	2378A	239AB	2467B	24689
	248AB	2679A	2789B	34678	347AB	3489B	3679B	3689A	469AB	4789A	678AB
D_6 :	01238	0124B	01259	0127A	01345	01379	013AB	01478	0149A	0157B	0158A
	0189B	0234A	02357	0239B	02458	02479	025AB	0278B	0289A	0347B	03489
	0358B	0359A	0378A	0457A	0459B	048AB	05789	079AB	12347	1235B	1239A
	1245A	12489	12578	1279B	128AB	1348A	1349B	1357A	13589	1378B	14579
	1458B	147AB	159AB	1789A	23459	2348B	2358A	23789	237AB	2457B	2478A
	249AB	2579A	2589B	34578	345AB	3479A	3579B	389AB	4589A	4789B	578AB
D_7 :	0123B	01245	0126A	01289	0134A	01358	01369	01468	0149B	0156B	0159A
	018AB	0234B	02356	0239A	02469	024AB	0258A	0259B	0268B	03459	0346B
	035AB	0368A	0389B	0456A	0458B	0489A	05689	069AB	12346	12359	1238A
	1248B	1249A	12568	125AB	1269B	1345B	13489	1356A	1368B	139AB	14569
	1458A	146AB	1589B	1689A	2345A	2349B	2358B	23689	236AB	2456B	24589
	2468A	2569A	289AB	34568	3469A	348AB	3569B	3589A	459AB	4689B	568AB
D_8 :	01234	01257	01269	012AB	0135B	01367	0139A	01459	0146B	0147A	0156A
	0179B	02359	0236A	0237B	0245A	02467	0249B	0256B	0279A	03456	03479
	034AB	0357A	0369B	0457B	0469A	05679	059AB	067AB	12356	1237A	1239B
	1245B	1246A	12479	1259A	1267B	1345A	13469	1347B	13579	136AB	14567
	149AB	1569B	157AB	1679A	23457	2346B	2349A	235AB	23679	24569	247AB
	2567A	2579B	269AB	3459B	3467A	3567B	3569A	379AB	456AB	4579A	4679B

D_9 : 01237 0124A 0125B 01268 0134B 01356 0138A 01458 01467 0157A 016AB
 0178B 02346 02358 023AB 02457 0248B 0256A 0267B 0278A 0345A 03478
 0357B 0367A 0368B 0456B 0468A 047AB 05678 058AB 12345 1236A 1238B
 1246B 1247B 12567 1258A 127AB 1346B 1347A 13578 135AB 1367B 1456A
 1457B 148AB 1568B 1678A 2347B 2348A 2356B 2357A 23678 24568 245AB
 2467A 2578B 268AB 34567 3458B 346AB 3568A 378AB 4578A 4678B 567AB
 D_A : 01235 01249 0126B 01278 01346 0137B 01389 01457 0148B 01568 0159B
 01679 02347 02369 0238B 0245B 02468 02567 02589 0279B 0345B 0349B
 0356B 03579 03678 04569 0467B 04789 0578B 0689B 1234B 1236B 1237B
 1245B 12467 12569 1257B 1289B 13459 13478 13567 1358B 1369B 1456B
 14689 1479B 15789 1678B 23456 23489 23578 2359B 2367B 24579 2469B
 2478B 2568B 26789 3457B 34679 3468B 35689 3789B 45678 4589B 5679B
 D_B : 01236 01247 01258 0129A 01349 0135A 01378 01456 0148A 01579 0167A
 01689 02345 02379 0238A 0246A 02489 02569 0257A 02678 0346B 0347A
 03567 03589 0369A 0457B 0459A 04679 0568A 0789A 1234A 12357 1238B
 12459 12468 1256A 12679 1278A 1345B 13467 13569 1368A 1379A 1457A
 1469A 14789 15678 1589A 23469 23478 23568 2359A 2367A 24567 2458A
 2479A 25789 2689A 3456A 34579 3489A 3578A 36789 45689 4678A 5679A

Overlarge Set 17

123	234	134	125	129	127	124	120	126	128	129	120
478	579	507	486	365	364	305	398	374	345	435	438
596	608	689	790	708	890	987	645	509	076	786	876
$\mu_{A\zeta B}$	$\mu_{A\zeta B}$	$\nu_{A\mu B}$	$\mu_{A\zeta B}$	$\nu_{A\mu B}$	$\mu_{A\zeta B}$	$\nu_{A\mu B}$	$\xi_{A\mu B}$	$\mu_{A\zeta B}$	$\xi_{A\mu B}$	$\mu_{0\zeta B}$	$\mu_{9\zeta A}$
D_0	D_1	D_2	D_3	D_4	D_5	D_6	D_7	D_8	D_9	D_A	D_B
D_0	12349 12358 12367 123AB 12456 1247B 1248A 1257A 1259B 1268B 1269A 12789 13457 1346A 1348B 1356B 1359A 13689 1378A 1379B 14589 145AB 14678 1469B 1479A 15679 1568A 1578B 167AB 189AB 2345B 2346B 2347A 2356A 23579 2369B 2378B 2389A 2457B 2459A 24679 246AB 2489B 2567B 25689 258AB 2678A 279AB 34569 3458A 3467B 34789 349AB 35678 357AB 3589B 3679A 368AB 4567A 4568B 4579B 4689A 478AB 569AB 5789A 6789B	D_1	02345 0236B 02379 0238A 0246A 0247B 02489 02569 0257A 0258B 02678 029AB 03467 0348B 0349A 0356A 0357B 0359B 03689 037AB 0456B 04579 045AB 0469B 0478A 0567B 0589A 0679A 068AB 0789B 23469 23478 234AB 2356B 2357B 2359A 2367A 2389B 24567 2458A 2459B 2468B 2479A 256AB 25789 2679B 2689A 278AB 3456B 3457A 3458B 3468A 3479B 35679 358AB 3678B 369AB 3789A 4569A 4578B 46789 467AB 489AB 5678A 5689B 579AB	D_2	01346 0135A 0137B 01389 0145B 01479 0148A 01569 01578 0167A 0168B 019AB 03458 0347A 0349B 0356B 03579 03678 0369A 038AB 04567 0459A 04689 046AB 0478B 0568A 057AB 0589B 0679B 0789A 13459 13478 134AB 13567 1358B 1368A 1369B 1379A 14568 1457A 1467B 1469A 1489B 156AB 1579B 1589A 16789 178AB 3456A 3457B 34679 3468B 3489A 35689 3578A 359AB 367AB 3789B 4569B 45789 458AB 4678A 479AB 5678B 5679A 689AB	D_3	01245 0126B 0127A 01289 0146A 01478 0149B 01568 0157B 0159A 01679 018AB 0246B 0247B 024AB 02567 0258A 0259B 0269A 0278B 04569 0457A 0458B 0467B 0489A 056AB 0578B 0678A 0689B 079AB 12467 1248B 1249A 12569 12578 125AB 1268A 1279B 1456B 14579 1458A 14689 147AB 1567A 1589B 1678B 169AB 1789A 2456A 2457B 24589 2469B 2478A 2568B 2579A 26789 267AB 289AB 4567B 459AB 4679A 468AB 4789B 5679B 5689A 578AB	D_4	01239 01256 0127B 0128A 01357 0136A 0138B 0158B 0159B 01678 0169B 0179A 0235B 0236B 0237A 0257B 0259A 02679 026AB 0289B 03569 0358A 0367B 0378B 039AB 0567A 0568B 0579B 0689A 078AB 1235A 1236B 1237B 12579 1258B 1267A 12689 129AB 1356B 1359B 13679 137AB 1389A 1567B 1569A 1578A 168AB 1789B 23567 23589 2369A 2379B 238AB 2568A 2569B 257AB 2678B 2789A 356AB 3578B 3579A 3678A 3689B 56789 589AB 679AB	D_5	01237 0124A 01269 0128B 0134B 0136B 0138A 01458 01467 01489 016AB 0178A 0179B 02346 0238B 023AB 0247B 0249B 0267B 0268A 0279A 03479 0348A 0367A 0369B 0378B 0468B 0469A 047AB 06789 089AB 1234B 1236A 1239B 1246B 1247B 1267B 127AB 1289A 1346B 1347A 1367B 1378B 1389A 1468A 1478B 149AB 1679A 1689B 2347B 2349A 23679 2368B 2378A 2467A 24689 248AB 269AB 2789B 3467B 346AB 3489B 3689A 379AB 4679B 4789A 678AB

D_6 : 0123B 01249 0125A 01278 0134A 01358 01379 01457 0148B 0159B 017AB
 0189A 02348 02357 0239A 0245B 0247A 02589 0279B 028AB 03459 0347B
 035AB 0378A 0389B 0458A 04789 049AB 0578B 0579A 12347 12359 1238A
 12458 124AB 1257B 1279A 1289B 1345B 13489 1357A 1378B 139AB 1459A
 1478A 1479B 15789 158AB 2345A 2349B 2358B 23789 237AB 24579 2478B
 2489A 2578A 259AB 34578 3479A 348AB 3579B 3589A 457AB 4589B 789AB
 D_7 : 01234 01259 01268 012AB 0135B 01369 0138A 01458 0146B 0149A 0156A
 0189B 02358 0236A 0239B 0245A 02469 0248B 0256B 0289A 03456 03489
 034AB 0359A 0368B 0459B 0468A 05689 058AB 069AB 12356 1238B 1239A
 1245B 1246A 12489 1258A 1269B 1345A 13468 1349B 13589 136AB 14569
 148AB 1568B 159AB 1689A 23459 2346B 2348A 235AB 23689 24568 249AB
 2569A 2589B 268AB 3458B 3469A 3568A 3569B 389AB 456AB 4589A 4689B
 D_8 : 0123A 01246 0125B 01279 01347 01356 0139B 01459 014AB 0157A 0167B
 0169A 0234B 02359 02367 02457 0249A 0256A 0269B 027AB 03454 03469
 0357B 036AB 0379A 0456B 0467A 0479B 05679 059AB 12345 12369 1237B
 1247A 1249B 12567 1259A 126AB 1346B 1349A 13579 135AB 1367A 1456A
 1457B 14679 1569B 179AB 2346A 23479 2356B 2357A 239AB 24569 245AB
 2467B 2579B 2679A 34567 3459B 347AB 3569A 3679B 4579A 469AB 567AB
 D_9 : 01238 0124B 01257 0126A 01345 01367 013AB 0146B 0147A 0156B 0158A
 0178B 0234A 02356 0237B 02458 02467 025AB 0268B 0278A 0346B 03478
 0357A 0358B 0368A 0456A 0457B 048AB 05678 067AB 12346 1235B 1237A
 1245A 12478 1256B 1267B 128AB 1347B 1348A 1356A 13578 1368B 14567
 1458B 146AB 157AB 1678A 23457 2348B 2358A 23678 236AB 2456B 2468A
 247AB 2567A 2578B 34568 345AB 3467A 3567B 378AB 4578A 4678B 568AB
 D_A : 01235 01248 01267 0129B 01349 0136B 01378 01456 0147B 01579 0158B
 01689 02347 02369 0238B 02459 0246B 0256B 0257B 02789 0345B 03468
 03567 03589 0379B 04578 04679 0489B 0569B 0678B 1234B 1236B 1237B
 12457 12469 1256B 12589 1278B 1345B 13467 13569 1357B 1389B 1459B
 1468B 14789 15678 1679B 23456 23489 23578 2359B 2367B 2458B 24678
 2479B 25679 2689B 34579 3469B 3478B 3568B 3678B 4567B 45689 5789B
 D_B : 01236 01247 01258 0129A 01348 01359 0137A 0145A 01469 01567 0168A
 01789 02349 0235A 02378 02456 0248A 02579 0267A 02689 03457 0346A
 03568 03679 0389A 04589 04678 0479A 0569A 0578A 1234A 12357 12389
 12459 12468 1256A 12679 1278A 13456 13479 1358A 1367B 1369A 14578
 1467A 1489A 15689 1579A 23458 23467 23569 2368A 2379A 2457A 2469A
 24789 25678 2589A 3459A 34689 3478A 3567A 35789 45679 4568A 6789A

Overlarge Set 18

123	234	134	125	129	127	124	120	126	128	129	120
478	579	507	486	365	364	305	398	374	345	438	438
596	608	689	790	708	890	987	645	509	076	567	657
$\mu_A \xi_B$	$\xi_A \nu_B$	$\xi_A \nu_B$	$\mu_A \nu_B$	$\mu_A \xi_B$	$\nu_A \mu_B$	$\mu_A \nu_B$	$\xi_A \mu_B$	$\mu_A \nu_B$	$\xi_A \nu_B$	$\mu_0 \xi_B$	$\mu_0 \nu_A$
D_0	D_1	D_2	D_3	D_4	D_5	D_6	D_7	D_8	D_9	D_A	D_B

D_0 : 12349 12358 12367 123AB 12456 1247B 1248A 1257A 1259B 1268B 1269A
 12789 13457 1346A 1348B 1356B 1359A 13689 1378A 1379B 14589 145AB
 14678 1469B 1479A 15679 1568A 1578B 167AB 189AB 23458 2346B 2347A
 2356A 23579 2369B 2378B 2389A 2457B 2459A 24679 246AB 2489B 2567B
 25689 258AB 2678A 279AB 34569 3458A 3467B 34789 349AB 3567B 357AB
 3589B 3679A 368AB 4567A 4568B 4579B 4689A 478AB 569AB 5789A 6789B
 D_1 : 02347 0235A 02369 0238B 02459 0246B 0248A 0256B 0257B 0267A 02789
 029AB 03458 0346A 0349B 0356B 03579 03678 037AB 0389A 04567 045AB
 04689 0478B 0479A 0569A 0578A 0589B 0679B 068AB 23456 23489 234AB
 23578 2359B 2367B 2368A 2379A 2457A 2458B 24678 2469A 2479B 25679
 256AB 2589A 2689B 278AB 3457B 3459A 34679 3468B 3478A 3567A 35689
 358AB 369AB 3789B 4568A 4569B 45789 467AB 489AB 5678B 579AB 6789A
 D_2 : 01348 01359 0136B 0137A 0145A 01469 0147B 01567 0158B 0168A 01789
 019AB 0345B 03467 0349A 0356A 03578 03689 0379B 038AB 04568 04579
 046AB 0478A 0489B 0569B 057AB 0589A 0678B 0679A 13456 13479 134AB
 1357B 1358A 13678 1369A 1389B 14578 1459B 1467A 1468B 1489A 15689
 156AB 1579A 1679B 178AB 23457A 23458B 23468A 23469B 3478B 35679 3568B
 359AB 367AB 3789A 4567B 4569A 458AB 46789 479AB 5678A 5789B 689AB

D_3 : 01245 0126B 0127A 01289 0146A 01478 0149B 01568 0157B 0159A 01679
 018AB 0246B 02479 024AB 02567 0258A 0259B 0269A 0278B 04569 0457A
 0458B 0467B 0489A 056AB 05789 0678A 0689B 079AB 12467 1248B 1249A
 12569 12578 125AB 1268A 1279B 1456B 14579 1458A 14689 147AB 1567A
 1589B 1678B 169AB 1789A 2456A 2457B 24589 2469B 2478A 2568B 2579A
 26789 267AB 289AB 45678 459AB 4679A 468AB 4789B 5679B 5689A 578AB
 D_4 : 01239 01256 0127B 0128A 01357 0136A 0138B 01589 015AB 01678 0169B
 0179A 0235B 0236B 0237A 02578 0259A 02679 026AB 0289B 03569 0358A
 0367B 03789 039AB 0567A 0568B 0579B 0689A 078AB 1235A 1236B 1237B
 12579 1258B 1267A 12689 129AB 1356B 1359B 13679 137AB 1389A 1567B
 1569A 1578A 168AB 1789B 23567 23589 2369A 2379B 238AB 2568A 2569B
 257AB 2678B 2789A 356AB 3578B 3579A 3678A 3689B 56789 589AB 679AB
 D_5 : 01237 0124A 01269 0128B 0134B 01368 0139A 01467 01489 016AB 0178A
 0179B 02346 02389 023AB 02478 0249B 0267B 0268A 0279A 03479 0348A
 0367A 0369B 0378B 0468B 0469A 047AB 06789 089AB 12348 1236A 1239B
 1246B 12479 12678 127AB 1289A 13469 1347A 1367B 13789 138AB 1468A
 1478B 149AB 1679A 1689B 2347B 2349A 23679 2368B 2378A 2467A 24689
 248AB 269AB 2789B 34678 346AB 3489B 3689A 379AB 4679B 4789A 678AB
 D_6 : 0123B 01249 0125A 01278 0134A 01358 01379 01457 0148B 0159B 017AB
 0189A 02348 02357 0239A 0245B 0247A 02589 0279B 028AB 03459 0347B
 035AB 0378A 0389B 0458A 04789 049AB 0578B 0579A 12347 12359 1238A
 1245B 124AB 1257B 1279A 1289B 1345B 13489 1357A 1378B 139AB 1459A
 1478A 1479B 15789 158AB 2345A 2349B 2358B 23789 237AB 24579 2478B
 2489A 2578A 259AB 34578 3479A 348AB 3579B 3589A 457AB 4589B 789AB
 D_7 : 01234 01259 01268 012AB 0135B 01369 0138A 01458 0146B 0149A 0156A
 0189B 02358 0236A 0239B 0245A 02469 0248B 0256B 0289A 03456 03489
 034AB 0359A 0368B 0459B 0468A 05689 058AB 069AB 12356 1238B 1239A
 1245B 1246A 12489 1258A 1269B 1345A 13468 1349B 13589 136AB 14569
 148AB 1568B 159AB 1689A 23459 2346B 2348A 235AB 23689 24568 249AB
 2569A 2589B 268AB 3458B 3469A 3568A 3569B 389AB 456AB 4589A 4689B
 D_8 : 0123A 01246 0125B 01279 01347 01356 0139B 01459 014AB 0157A 0167B
 0169A 0234B 02359 02367 02457 0249A 0256A 0269B 027AB 0345A 03469
 0357B 036AB 0379A 0456B 0467A 0479B 05679 059AB 12345 12369 1237B
 1247A 1249B 12567 1259A 126AB 1346B 1349A 13579 135AB 1367A 1456A
 1457B 14679 1569B 179AB 2346A 2347B 2356B 2357A 239AB 24569 245AB
 2467B 2579B 2679A 34567 3459B 347AB 3569A 3679B 4579A 469AB 567AB
 D_9 : 01238 0124B 01257 0126A 01345 01367 013AB 0146B 0147A 0156B 0158A
 0178B 0234A 02356 0237B 02458 02467 025AB 0268B 0278A 0346B 03478
 0357A 0358B 0368A 0456A 0457B 046AB 05678 067AB 12346 1235B 1237A
 1245A 12478 1256B 1267B 128AB 1347B 1348A 1356A 1357B 1368B 14567
 1458B 146AB 157AB 1678A 23457 2348B 2358A 23678 236AB 2456B 2468A
 247AB 2567A 2578B 34568 345AB 3467A 3567B 378AB 4578A 4678B 568AB
 D_A : 01235 01248 01267 0129B 01346 0137B 01389 0145B 01479 01569 01578
 0168B 02349 0236B 0237B 02458 02467 02579 0258B 02689 03457 0348B
 0356B 0359B 03679 04589 04678 0469B 0567B 0789B 1234B 1236B 1237B
 12457 12469 1256B 12589 1278B 13459 1347B 13567 1358B 1369B 14568
 1467B 1489B 1579B 16789 23458 23467 23569 2357B 2389B 2459B 2468B
 24789 25678 2679B 3456B 34689 3479B 35789 3678B 45679 4578B 5689B
 D_B : 01236 01247 01258 0129A 01349 0135A 0137B 01456 0148A 01579 0167A
 01689 02345 02379 0238A 0246A 02489 02569 0257A 02678 0346B 0347A
 03567 03589 0369A 04578 0459A 04679 0568A 0789A 1234A 12357 12389
 12459 12468 1256A 12679 1278A 13458 13467 13569 1368A 1379A 1457A
 1469A 14789 15678 1589A 23469 2347B 2356B 2359A 2367A 24567 2458A
 2479A 25789 2689A 3456A 34579 3489A 3578A 36789 45689 4678A 5679A

Overlarge Set 19

	123	234	134	125	129	128	124	126	120	127	129	120
	478	579	507	486	365	347	305	354	379	364	435	435
	596	608	689	790	708	096	987	809	645	580	786	876
	$\mu_A \zeta_B$	$\mu_A \zeta_B$	$\nu_A \mu_B$	$\mu_A \nu_B$	$\mu_A \zeta_B$	$\zeta_A \nu_B$	$\mu_A \nu_B$	$\mu_A \nu_B$	$\zeta_A \mu_B$	$\nu_A \mu_B$	$\mu_0 \nu_B$	$\mu_9 \zeta_A$
	D_0	D_1	D_2	D_3	D_4	D_5	D_6	D_7	D_8	D_9	D_A	D_B
D_0	12349	12358	12367	123AB	12456	1247B	1248A	1257A	1259B	1268B	1269A	
	12789	13457	1346A	1348B	1356B	1359A	13689	1378A	1379B	14589	145AB	
	14678	1469B	1479A	15679	1568A	1578B	167AB	189AB	2345B	2346B	2347A	
	2356A	23579	2369B	2378B	2389A	24578	2459A	24679	246AB	2489B	2567B	
	25689	258AB	2678A	279AB	34569	3458A	3467B	34789	349AB	35678	357AB	
	3589B	3679A	368AB	4567A	4568B	4579B	4689A	478AB	569AB	5789A	6789B	
D_1	02345	0236B	02379	0238A	0246A	0247B	02489	02569	0257A	0258B	02678	
	029AB	03467	0348B	0349A	0356A	0357B	0359B	03689	037AB	04568	04579	
	045AB	0469B	0478A	0567B	0589A	0679A	068AB	0789B	23469	23478	234AB	
	2356B	2357B	2359A	2367A	2389B	24567	2458A	2459B	2468B	2479A	256AB	
	25789	2679B	2689A	278AB	3456B	3457A	34589	3468A	3479B	35679	358AB	
	3678B	369AB	3789A	4569A	4578B	46789	467AB	489AB	5678A	5689B	579AB	
D_2	01346	0135A	0137B	01389	0145B	01479	0148A	01569	01578	0167A	0168B	
	019AB	0345B	0347A	0349B	0356B	03579	03678	0369A	038AB	04567	0459A	
	04689	046AB	0478B	0568A	057AB	0589B	0679B	0789A	13459	13478	134AB	
	13567	1358B	1368A	1369B	1379A	14568	1457A	1467B	1469A	1489B	156AB	
	1579B	1589A	16789	178AB	3456A	3457B	34679	3468B	3489A	3568S	3578A	
	359AB	367AB	3789B	4569B	45789	458AB	4678A	479AB	5678B	5679A	689AB	
D_3	01245	0126B	0127A	01289	0146A	01478	0149B	01568	0157B	0159A	01679	
	018AB	02468	02479	024AB	02567	0258A	0259B	0269A	0278B	04569	0457A	
	0458B	0467B	0489A	056AB	05789	0678A	0689B	079AB	12467	1248B	1249A	
	12569	12578	125AB	1268A	1279B	1456B	14579	1458A	14689	147AB	1567A	
	1589B	1678B	169AB	1789A	2456A	2457B	24589	2469B	2478A	2568B	2579A	
	2678B	267AB	289AB	4567B	459AB	4679A	468AB	4789B	5679B	5689A	578AB	
D_4	01239	01256	0127B	0128A	01357	0136A	0138B	01589	015AB	01678	0169B	
	0179A	0235B	0236B	0237A	0257B	0259A	02679	026AB	0289B	03569	0358A	
	0367B	03789	039AB	0567A	0568B	0579B	0689A	078AB	1235A	1236B	1237B	
	12579	1258B	1267A	12689	129AB	1356B	1359B	13679	137AB	1389A	1567B	
	1569A	1578A	168AB	1789B	23567	23589	2369A	2379B	238AB	2568A	2569B	
	257AB	2678B	2789A	356AB	3578B	3579A	3678A	3689B	56789	589AB	679AB	
D_5	01238	0124B	0126A	01279	01347	01369	013AB	01468	0149A	0167B	0178A	
	0189B	0234A	02367	0239B	02469	02478	0268B	027AB	0289A	0346B	03489	
	0368A	0378B	0379A	0467A	0479B	048AB	06789	069AB	12346	1237B	1239A	
	1247A	12489	12678	1269B	128AB	1348A	1349B	1367A	1368B	13789	14679	
	146AB	1478B	1689A	179AB	23479	2348B	23689	236AB	2378A	2467B	2468A	
	249AB	2679A	2789B	34678	3469A	347AB	3679B	389AB	4689B	4789A	678AB	
D_6	0123B	01249	0125A	01278	0134A	01358	01379	01457	0148B	0159B	017AB	
	0189A	0234B	02357	0239A	0245B	0247A	02589	0279B	028AB	03459	0347B	
	035AB	0378A	0389B	0458A	04789	049AB	0578B	0579A	12347	12359	1238A	
	12458	124AB	1257B	1279A	1289B	1345B	13489	1357A	1378B	139AB	1459A	
	1478A	1479B	15789	158AB	2345A	2349B	2358B	23789	237AB	24579	2478B	
	2489A	2578A	259AB	34578	3479A	348AB	3579B	3589A	457AB	4589B	789AB	
D_7	0123A	01246	01259	0128B	01345	01368	0139B	01489	014AB	0156B	0158A	
	0169A	0234B	02356	02389	02458	0249A	025AB	0268A	0269B	03469	0348A	
	0358B	0359A	036AB	0456A	0459B	0468B	05689	089AB	12348	1235B	12369	
	1245A	1249B	12568	126AB	1289A	1346B	1349A	1356A	13589	138AB	14569	
	1458B	1468A	159AB	1689B	23459	2346A	2358A	2368B	239AB	2456B	24689	
	248AB	2569A	2589B	34568	345AB	3489B	3569B	3689A	4589A	469AB	568AB	
D_8	01234	01257	01269	012AB	0135B	01367	0139A	01459	0146B	0147A	0156A	
	0179B	02359	0236A	0237B	0245A	02467	0249B	0256B	0279A	03456	03479	
	034AB	0357A	0369B	0457B	0469A	05679	059AB	067AB	12356	1237A	1239B	
	1245B	1246A	12479	1259A	1267B	1345A	13469	1347B	13579	136AB	14567	
	149AB	1569B	157AB	1679A	23457	2346B	2349A	235AB	23679	24569	247AB	
	2567A	2579B	269AB	3459B	3467A	3567B	3569A	379AB	456AB	4579A	4679B	

D_9 : 01237 0124A 0125B 01268 0134B 01356 0138A 01458 01467 0157A 016AB
 0178B 02346 02358 023AB 02457 0248B 0256A 0267B 0278A 0345A 03478
 0357B 0367A 0368B 0456B 0468A 047AB 05678 058AB 12345 1236A 1238B
 1246B 12478 12567 1258A 127AB 1346B 1347A 13578 135AB 1367B 1456A
 1457B 148AB 1568B 1678A 2347B 2348A 2356B 2357A 2367B 2456B 245AB
 2467A 2578B 268AB 34567 3458B 346AB 3568A 378AB 4578A 4678B 567AB
 D_A : 01235 01248 01267 0129B 01349 0136B 01378 01456 0147B 01579 0158B
 01689 02347 02369 0238B 02459 0246B 02568 0257B 02789 0345B 03468
 03567 03589 0379B 04578 04679 0489B 0569B 0678B 1234B 1236B 12379
 12457 12469 1256B 12589 1278B 1345B 13467 13569 1357B 1389B 1459B
 1468B 14789 1567B 1679B 23456 23489 23578 2359B 2367B 2458B 24678
 2479B 25679 2689B 34579 3469B 3478B 3568B 36789 4567B 45689 5789B
 D_B : 01236 01247 01258 0129A 01348 01359 0137A 0145A 01469 01567 0168A
 01789 02349 0235A 02378 02456 0248A 02579 0267A 02689 03457 0346A
 03568 03679 0389A 04589 04678 0479A 0569A 0578A 1234A 12357 12389
 12459 12468 1256A 12679 1278A 13456 13479 1358A 13678 1369A 14578
 1467A 1489A 15689 1579A 23458 23467 23569 2368A 2379A 2457A 2469A
 24789 25678 2589A 3459A 34689 3478A 3567A 35789 45679 4568A 6789A

Overlarge Set 20

123	234	134	127	128	120	129	125	126	124	128	127
478	579	507	456	356	364	354	348	374	387	367	548
596	608	689	809	097	798	870	906	509	605	459	630
$\mu_A \xi_B$	$\xi_A \nu_B$	$\xi_A \nu_B$	$\xi_A \nu_B$	$\nu_A \mu_B$	$\xi_A \nu_B$	$\mu_A \xi_B$	$\nu_A \xi_B$	$\mu_A \nu_B$	$\mu_A \xi_B$	$\mu_0 \nu_B$	$\mu_0 \xi_A$
D_0	D_1	D_2	D_3	D_4	D_5	D_6	D_7	D_8	D_9	D_A	D_B
D_0	12349 12358 12367 123AB 12456 1247B 1248A 1257A 1259B 1268B 1269A 12789 13457 1346A 1348B 1356B 1359A 13689 1378A 1379B 14589 145AB 14678 1469B 1479A 15679 1568A 1578B 167AB 189AB 2345B 2346B 2356A 23579 2369B 2378B 2389A 24578 2459A 24679 246AB 2489B 2567B 25689 258AB 2678A 279AB 34569 3458B 34678 34789 349AB 35678 357AB 3589B 3679A 368AB 4567A 4568B 45688 4579B 4689A 478AB 569AB 5789A 6789B										
D_1	02347 0235A 02369 0238B 02459 0246B 0248A 02568 0257B 0267A 02789 029AB 0345B 0346A 0349B 0356B 03579 03678 037AB 0389A 04567 045AB 04689 0478B 0479A 0569A 0578A 0589B 0679B 068AB 23456 23489 234AB 23578 2359B 2367B 2368A 2379A 2457A 2458B 24678 2469A 2479B 25679 256AB 2589A 2689B 278AB 3457B 3459A 34679 3468B 3478A 3567A 35689 358AB 369AB 3789B 4568A 4569B 45789 467AB 489AB 5678B 579AB 6789A										
D_2	01348 01359 0136B 0137A 0145A 01469 0147B 01567 0158B 0168A 01789 019AB 0345B 03467 0349A 0356A 03578 03689 0379B 038AB 04568 04579 046AB 0478A 0489B 0569B 057AB 0589A 0678B 0679A 13456 13479 134AB 1357B 1358A 13678 1369A 1389B 14578 1459B 1467A 1468B 1489A 15689 156AB 1579A 1679B 178AB 3457A 34589 3468A 3469B 3478B 35679 3568B 359AB 367AB 3789A 4567B 4569A 458AB 46789 479AB 5678A 5789B 689AB										
D_3	0124A 01257 01268 0129B 0145B 01467 01489 01569 0158A 016AB 0178B 0179A 02456 02479 0248B 02589 025AB 0267B 0269A 0278A 04578 0459A 0468A 0469B 047AB 0567A 0568B 0579B 06789 089AB 12459 1246B 12478 1256A 1258B 12679 127AB 1289A 1456B 1457A 1469A 1479B 148AB 1567B 15789 159AB 1678A 1689B 2457B 2458A 2467A 24689 249AB 25678 2569B 2579A 268AB 2789B 45679 456AB 4589B 4678B 4789A 5689A 578AB 679AB										
D_4	01236 01258 0127B 0129A 01357 01389 013AB 0156A 0159B 01679 0168B 0178A 0235B 02379 0238A 02569 0257A 02678 026AB 0289B 03568 0359A 0367A 0369B 0378B 0567B 05789 058AB 0689A 079AB 1235A 12378 1239B 1256B 12579 1267A 12689 128AB 13569 1358B 1367B 1368A 1379A 15678 157AB 1589A 169AB 1789B 23567 23589 2368B 2369A 237AB 2568A 2578B 259AB 2679B 2789A 356AB 3578A 3579B 36789 389AB 5679A 5689B 678AB										
D_5	01237 01248 01269 012AB 01349 0136A 0138B 0146B 0147A 01678 0179B 0189A 0234A 0236B 02389 02467 0249B 0268A 0278B 0279A 0346B 0347B 03679 0378A 039AB 0469A 04789 048AB 067AB 0689B 1234B 1236B 1239A 1246A 12479 1267B 1278A 1289B 13467 1348A 1369B 13789 137AB 14689 1478B 149AB 1679A 168AB 23469 23478 2367A 2379B 238AB 2468B 247AB 2489A 26789 269AB 346AB 3479A 3489B 3678B 3689A 4678A 4679B 789AB										

D_6 : 01238 0124B 01259 0127A 01345 0137B 0139A 01479 0148A 01578 015AB
 0189B 02349 02357 023AB 0245A 02478 0258B 0279B 0289A 0347A 0348B
 0358A 0359B 03789 0457B 04589 049AB 0579A 078AB 1234A 1235B 12379
 12457 12489 1258A 1278B 129AB 13478 1349B 1357A 13589 138AB 1458B
 1459A 147AB 1579B 1789A 23458 2347B 2359A 2378A 2389B 2459B 2479A
 248AB 25789 257AB 34579 345AB 3489A 3578B 379AB 4578A 4789B 589AB
 D_7 : 0123B 01245 0126A 01289 0134A 01358 01369 01468 0149B 0156B 0159A
 018AB 02348 02356 0239A 02469 024AB 0258A 0259B 0268B 03459 0346B
 035AB 0368A 0389B 0456A 0458B 0489B 05689 069AB 12346 12359 1238A
 1248B 1249A 1256B 1269B 1345B 13489 1356A 1368B 139AB 1456A
 1458A 146AB 1589B 1689A 23454 2349B 2358B 23689 236AB 2456B 24589
 2468A 2569A 289AB 34568 3469A 348AB 3569B 3589A 459AB 4689B 568AB
 D_8 : 0123A 01246 0125B 01279 01347 01356 0139B 01459 014AB 0157A 0167B
 0169A 0234B 02359 02367 02457 0249A 0256A 0269B 027AB 0345A 0346B
 0357B 036AB 0379A 0456B 0467A 0479B 05679 059AB 12345 12369 1237B
 1247A 1249B 12567 1259A 126AB 1346B 1349A 13579 135AB 1367A 1456A
 1457B 14679 1569B 179AB 2346A 23479 2356B 2357A 239AB 24569 245AB
 2467B 2579B 2679A 34567 3459B 347AB 3569A 3679B 4579A 469AB 567AB
 D_9 : 0123A 0125A 0126B 0127B 0135B 01367 0138A 01457 0146A 0148B 0156B
 017AB 02358 0236A 0237B 0245B 0246B 0247A 02567 028AB 03456 0347B
 034AB 0357A 0368B 0458A 0467B 056AB 0578B 0678A 12356 1237A 1238B
 12458 12467 124AB 1257B 1268A 1345A 1346B 1347B 13578 136AB 1456B
 1478A 1567A 158AB 1678B 23457 2346B 2348A 235AB 23678 24564 2478B
 2568B 2578A 267AB 3458B 3467A 3567B 3568A 378AB 45678 457AB 468AB
 D_A : 01235 01249 01267 0128B 0134B 01368 01379 01456 01478 0157B 01589
 0169B 02346 02378 0239B 02458 0247B 0256B 02579 02689 03457 03489
 03563 0358B 0367B 0459B 04679 0468B 05678 0789B 12347 1236B 12389
 1245B 12468 12569 12578 1279B 13458 13469 13567 1359B 1378B 14579
 1467B 1489B 1568B 16789 23459 2348B 23568 2357B 23679 24567 2469B
 24789 2589B 2678B 3456B 34678 3479B 35789 3689B 45689 4578B 5679B
 D_B : 01239 01247 01256 0128A 01346 0135A 01378 01458 0149A 01579 0167A
 01689 02345 02368 0237A 0246A 02489 02578 0259A 02679 03479 0348A
 03567 0358B 0369A 04569 0457A 04678 0568A 0789A 12348 12357 1236A
 1245A 12469 12589 12678 1279A 13459 1347A 13568 13679 1389A 14567
 1468A 14789 1569A 1578A 23467 2349A 23569 2358A 23789 24568 24579
 2478A 2567A 2689A 3456A 34578 34689 3579A 3678A 4589A 4679A 56789

Overlarge Set 21

123	234	134	127	128	120	129	125	126	124	128	127
478	579	507	486	356	378	354	348	390	360	367	548
596	608	689	905	097	649	870	906	745	578	459	630
$\mu_A \xi_B$	$\xi_A \nu_B$	$\xi_A \nu_B$	$\nu_A \mu_B$	$\xi_A \mu_B$	$\mu_A \xi_B$	$\nu_A \xi_B$	$\nu_A \mu_B$	$\nu_A \xi_B$	$\mu_0 \nu_B$	$\mu_9 \xi_A$	
D_0	D_1	D_2	D_3	D_4	D_5	D_6	D_7	D_8	D_9	D_A	D_B

D_0 : 12349 12358 12367 123AB 12456 1247B 1248A 1257A 1259B 1268B 1269A
 12789 13457 1346A 1348B 1356B 1359A 13689 1378A 1379B 14589 145AB
 14678 1469B 1479A 15679 1568A 1578B 167AB 189AB 2345B 2346B 2347A
 2356A 23579 2369B 2378B 2389A 24578 2459A 24679 246AB 2489B 2567B
 25689 258AB 2678A 279AB 34569 3458A 3467B 34789 349AB 35678 357AB
 3589B 3679A 368AB 4567A 4568B 4579B 4689A 478AB 569AB 5789A 6789B
 D_1 : 02347 0235A 02369 0238B 02459 0246B 0248A 02568 0257B 0267A 02789
 029AB 03458 0346A 0349B 0356B 03579 03678 037AB 0389A 04567 045AB
 04689 0478B 0479A 0569A 0578A 0589B 0679B 068AB 23456 23489 234AB
 23578 2359B 2367B 2368A 2379A 2457A 2458B 24678 2469A 2479B 25679
 256AB 2589A 2689B 278AB 3457B 3459A 34679 3468B 3478A 3567A 35689
 358AB 369AB 3789B 4568A 4569B 45789 467AB 489AB 5678B 579AB 6789A
 D_2 : 01348 01359 0136B 0137A 0145A 01469 0147B 01567 0158B 0168A 01789
 019AB 0345B 03467 0349A 0356A 0357B 03689 0379B 038AB 04568 04579
 046AB 0478A 0489B 0569B 057AB 0589A 0678B 0679A 13456 13479 134AB
 1357B 1358A 13678 1369A 1389B 14578 1459B 1467A 1468B 1489A 15689
 156AB 1579A 1679B 178AB 3457A 34589 3468A 3469B 3478B 35679 3568B
 359AB 367AB 3789A 4567B 4569A 458AB 46789 479AB 5678A 5789B 689AB

D_3 : 0124A 0125B 01269 01278 01459 01467 0148B 01568 0157A 016AB 0179B
 0189A 02457 02468 0249B 0256A 02589 0267B 0279A 028AB 0456B 0458A
 0469A 04789 047AB 05679 0578B 059AB 0678A 0689B 12458 1246B 12479
 12567 1259A 1268A 127AB 1289B 1456A 1457B 14689 1478A 149AB 1569B
 15789 158AB 1678B 1679A 24569 245AB 2467A 2478B 2489A 2568B 2578A
 2579B 26789 269AB 45678 4579A 4589B 4679B 468AB 567AB 5689A 789AB
 D_4 : 01236 01258 0127B 0129A 01357 01389 013AB 0156A 0159B 01679 0168B
 0178A 0235B 02379 0238A 02569 0257A 02678 026AB 0289B 03568 0359A
 0367A 0369B 0378B 0567B 05789 058AB 0689A 079AB 1235A 1237B 1239B
 1256B 12579 1267A 12689 128AB 13569 1358B 1367B 1368A 1379A 15678
 157AB 1589A 169AB 1789B 23567 23589 2368B 2369A 237AB 2568A 2578B
 259AB 2679B 2789A 356AB 3578A 3579B 36789 389AB 5679A 5689B 678AB
 D_5 : 01234 01268 01279 012AB 01367 0138A 0139B 0146B 0147A 01489 0169A
 0178B 0236A 0237B 02389 02467 0248B 0249A 0269B 0278A 03469 03478
 034AB 0368B 0379A 0468A 0479B 06789 067AB 089AB 12369 1237A 1238B
 1246A 12478 1249B 1267B 1289A 1346B 1347B 1349A 136AB 13789 14679
 148AB 1678A 1689B 179AB 2346B 23479 2348A 23678 239AB 24689 247AB
 2679A 268AB 2789B 3467A 3489B 3679B 3689A 378AB 4678B 469AB 4789A
 D_6 : 01238 0124B 01259 0127A 01345 0137B 0139A 01479 0148A 01578 015AB
 0189B 02349 02357 023AB 0245A 02478 0258B 0279B 0289A 0347A 0348B
 0358A 0359B 03789 0457B 04589 049AB 0579A 078AB 1234A 1235B 12379
 12457 12489 1258A 1278B 129AB 1347B 1349B 1357A 13589 138AB 1458B
 1459A 147AB 1579B 1789A 2345B 2347B 2359A 2378A 2389B 2459B 2479A
 248AB 25789 257AB 34579 345AB 3489A 3578B 379AB 4578A 4789B 589AB
 D_7 : 0123B 01245 0126A 01289 0134A 01358 01369 0146B 0149B 0156B 0159A
 018AB 02348 02356 0239A 02469 024AB 0258A 0259B 0268B 03459 0346B
 035AB 0368A 0389B 0456A 0458B 0489A 05689 069AB 12346 12359 1238A
 1248B 1249A 1256B 125AB 1269B 1345B 13489 1356A 1368B 139AB 14569
 1458A 146AB 1589B 1689A 2345A 2349B 2358B 23689 236AB 2456B 24589
 2468A 2569A 289AB 34568 3469A 348AB 3569B 3589A 459AB 4689B 568AB
 D_8 : 01237 01246 0125A 0129B 01349 0135B 0136A 01457 014AB 01569 0167B
 0179A 0234A 02359 0236B 0245B 02479 02567 0269A 027AB 03456 0347B
 0357A 03679 039AB 0459A 0467A 0469B 056AB 0579B 1234B 12356 1239A
 12459 1247A 1257B 12679 126AB 1345A 13467 13579 1369B 137AB 1456B
 1469A 1479B 1567A 159AB 23457 23469 235AB 2367A 2379B 2456A 2467B
 249AB 2569B 2579A 3459B 346AB 3479A 3567B 3569A 45679 457AB 679AB
 D_9 : 0123A 01248 01257 0126B 01347 01356 0138B 0145B 0146A 0158A 01678
 017AB 0234B 02358 02367 02456 0247A 025AB 0268A 0278B 0345A 0346B
 0357B 036AB 0378A 0457B 0467B 048AB 0567A 0568B 12345 12368 1237B
 12467 124AB 1256A 1258B 1278A 1346B 1348A 13578 135AB 1367A 1456B
 1457A 1478B 1567B 168AB 2346A 2347B 2356B 2357A 238AB 2457B 2458A
 2468B 25678 267AB 34567 3458B 347AB 3568A 3678B 456AB 4678A 578AB
 D_A : 01235 01249 01267 0128B 0134B 01368 01379 01456 01478 0157B 01589
 0169B 02346 02378 0239B 02458 0247B 0256B 02579 02689 03457 03489
 03569 0358B 0367B 0459B 04679 0468B 05678 0789B 12347 1236B 12389
 1245B 1246B 12569 12578 1279B 13458 13469 13567 1359B 1378B 14579
 1467B 1489B 1568B 16789 23459 2348B 23568 2357B 23679 24567 2469B
 24789 2589B 2678B 3456B 3467B 3479B 35789 3689B 45689 4578B 5679B
 D_B : 01239 01247 01256 0128A 01346 0135A 01378 01458 0149A 01579 0167A
 01689 02345 02368 0237A 0246A 0248B 02578 0259A 02679 03479 0348A
 03567 03589 0369A 04569 0457A 04678 0568A 0789A 12348 12357 1236A
 1245A 12469 12589 12678 1279A 13459 1347A 13568 13679 1389A 14567
 1468A 14789 1569A 1578A 23467 2349A 23569 2358A 23789 24568 24579
 2478A 2567A 2689A 3456A 34578 34689 3579A 3678A 4589A 4679A 56789

Overlarge Set 22

	123	234	134	120	129	127	128	125	126	124	129	120
	478	579	507	456	365	364	345	348	374	387	438	438
	596	608	689	897	708	890	097	906	509	605	567	657
	$\mu_{A\bar{C}B}$	$\xi_{A\bar{V}B}$	$\xi_{A\bar{V}B}$	$\mu_{A\bar{C}B}$	$\mu_{A\bar{C}B}$	$\nu_{A\bar{U}B}$	$\xi_{A\bar{V}B}$	$\nu_{A\bar{C}B}$	$\mu_{A\bar{V}B}$	$\mu_{A\bar{C}B}$	$\mu_{0\bar{C}B}$	$\mu_{9\bar{V}A}$
	D_0	D_1	D_2	D_3	D_4	D_5	D_6	D_7	D_8	D_9	D_A	D_B
D_0 :	12349	12358	12367	123AB	12456	1247B	1248A	1257A	1259B	1268B	1269A	
	12789	13457	1346A	1348B	1356B	1359A	13689	1378A	1379B	14589	145AB	
	14678	1469B	1479A	15679	1568A	1578B	167AB	189A	2345B	2346B	2347A	
	2356A	23579	2369B	2378B	2389A	24578	2459A	24679	246AB	2489B	2567B	
	25689	258AB	2678A	279AB	34569	3458A	3467B	34789	349AB	35678	357AB	
	3589B	3679A	368AB	4567A	4568B	4579B	4689A	478AB	569AB	5789A	6789B	
D_1 :	02347	0235A	02369	0238B	02459	0246B	0248A	02568	0257B	0267A	02789	
	029AB	0345B	0346A	0349B	0356B	03579	03678	037AB	0389A	04567	045AB	
	04689	0478B	0479A	0569A	0578A	0589B	0679B	068AB	23456	23489	234AB	
	23578	2359B	2367B	2368A	2379A	2457A	2458B	24678	2469A	2479B	25679	
	256AB	2589A	2689B	278AB	3457B	3459A	34679	3468B	3478A	3567A	35689	
	358AB	369AB	3789B	4568A	4569B	45789	467AB	489AB	5678B	579AB	6789A	
D_2 :	01348	01359	0136B	0137A	0145A	01469	0147B	01567	0158B	0168A	01789	
	019AB	0345B	03467	0349A	0356A	03578	03689	0379B	038AB	04568	04579	
	046AB	0478A	0489B	0569B	057AB	0589A	0678B	0679A	13456	13479	134AB	
	1357B	1358A	1367B	1369A	1389B	14578	1459B	1467A	1468B	1489A	15689	
	156AB	1579A	1679B	178AB	3457A	34589	3468A	3469B	3478B	35679	3568B	
	359AB	367AB	3789A	4567B	4569A	458AB	46789	479AB	5678A	5789B	689AB	
D_3 :	01249	01257	0126B	012AB	01458	0146B	0147A	0156A	0159B	01679	0178B	
	0189A	0245A	02467	0248B	0256B	02589	0269A	0278A	0279B	04569	0457B	
	0468A	04789	049AB	05678	0579A	058AB	067AB	0689B	1245B	1246A	12478	
	12569	1258A	1267B	1279A	1289B	14567	1459A	14689	1479B	148AB	1568B	
	15789	157AB	1678A	169AB	2456B	24579	2469B	247AB	2489A	2567A	2578B	
	259AB	26789	268AB	456AB	4578A	4589B	4678B	4679A	5679B	5689A	789AB	
D_4 :	01239	01256	0127B	0128A	01357	0136A	0138B	01589	015AB	01678	0169B	
	0179A	0235B	0236B	0237A	0257B	0259A	02679	026AB	0289B	03569	0358A	
	0367B	03789	039AB	0567A	0568B	0579B	0689A	078AB	1235A	1236B	1237B	
	12579	1258B	1267A	12689	129AB	1356B	1359B	13679	137AB	1389A	1567B	
	1569A	1578A	168AB	1789B	23567	23589	2369A	2379B	238AB	2568A	2569B	
	257AB	2678B	2789A	356AB	3578B	3579A	3678A	3689B	56789	589AB	679AB	
D_5 :	01237	0124A	01269	0128B	0134B	01368	0139A	01467	01489	016AB	0178A	
	0179B	02346	02389	023AB	02478	0249B	0267B	0268A	0279A	03479	0348A	
	0367A	0369B	0378B	0468B	0469A	047AB	06789	089AB	12348	1236A	1239B	
	1246B	12479	12678	127AB	1289A	13469	1347A	1367B	13789	138AB	1468A	
	1478B	149AB	1679A	1689B	2347B	2349A	23679	2368B	2378A	2467A	24689	
	248AB	269AB	2789B	3467B	346AB	3489B	3689A	379AB	4679B	4789A	678AB	
D_6 :	01238	0124B	01259	0127A	01345	01379	013AB	01478	0149A	0157B	0158A	
	0189B	0234A	02357	0239B	02458	02479	025AB	0278B	0289A	0347B	03489	
	0358B	0359A	0378A	0457A	0459B	048AB	05789	079AB	12347	1235B	1239A	
	1245A	12489	12578	1279B	128AB	1348A	1349B	1357A	13589	1378B	14579	
	1458B	147AB	159AB	1789A	23459	2348B	2358A	23789	237AB	2457B	2478A	
	249AB	2579A	2589B	3457B	345AB	3479A	3579B	389AB	4589A	47789	578AB	
D_7 :	0123B	01245	0126A	01289	0134A	01358	01369	01468	0149B	0156B	0159A	
	018AB	02348	02356	0239A	02469	024AB	0258A	0259B	0268B	03459	0346B	
	035AB	0368A	0389B	0456A	0458B	0489A	05689	069AB	12346	12359	1238A	
	1248B	1249A	1256B	125AB	1269B	1345B	13489	1356A	1368B	139AB	14569	
	1458A	146AB	1589B	1689A	2345A	2349B	2358B	23689	236AB	2456B	24589	
	2468A	2569A	289AB	34568	3469A	348AB	3569B	3589A	459AB	4689B	568AB	
D_8 :	0123A	01246	0125B	01279	01347	01356	0139B	01459	014AB	0157A	0167B	
	0169A	0234B	02359	02367	02457	0249A	0256A	0269B	027AB	0345A	03469	
	0357B	036AB	0379A	0456B	0467A	0479B	05679	059AB	12345	12369	1237B	
	1247A	1249B	12567	1259A	126AB	1346B	1349A	13579	135AB	1367A	1456A	
	1457B	14679	1569B	179AB	2346A	23479	2356B	2357A	239AB	24569	245AB	
	2467B	2579B	2679A	34567	3459B	347AB	3569A	3679B	4579A	469AB	567AB	

D_9 : 01234 0125A 0126B 01278 0135B 01367 0138A 01457 0146A 0148B 01568
 017AB 02358 0236A 0237B 0245B 02468 0247A 02567 028AB 03456 03478
 034AB 0357A 0368B 0458A 0467B 056AB 0578B 0678A 12356 1237A 1238B
 12458 12467 124AB 1257B 1268A 1345A 13468 1347B 13578 136AB 1456B
 1478A 1567A 158AB 1678B 23457 2346B 2348A 235AB 23678 2456A 2478B
 2568B 2578A 267AB 3458B 3467A 3567B 3568A 378AB 45678 457AB 468AB
 D_A : 01235 01248 01267 0129B 01346 0137B 01389 0145B 01479 01569 01578
 0168B 02349 0236B 02378 02456 0247B 02579 0258B 02689 03457 0348B
 03568 0359B 03679 04589 04678 0469B 0567B 0789B 1234B 1236B 1237B
 12457 12469 1256B 12589 1278B 13459 13478 13567 1358B 1369B 1456B
 1467B 1489B 1579B 1678B 23458 23467 23569 2357B 2389B 2459B 2468B
 24789 25678 2679B 3456B 34689 3479B 35789 3678B 45679 4578B 5689B
 D_B : 01236 01247 01258 0129A 01349 0135A 01378 01456 0148A 01579 0167A
 0168B 02345 02379 0238A 0246A 02489 02569 0257A 02678 0346B 0347A
 03567 03589 0369A 04578 0459A 04679 0568A 0789A 1234A 12357 12389
 12459 12468 1256A 12679 1278A 13458 13467 13569 1368A 1379A 1457A
 1469A 14789 1567B 1589A 23469 23478 23568 2359A 2367A 24567 2458A
 2479A 25789 2689A 3456A 34579 3489A 3578A 36789 45689 4678A 5679A

Overlarge Set 23

123	234	134	124	129	126	127	120	125	128	129	128
478	579	560	507	365	374	384	398	346	345	438	654
596	608	879	689	708	809	590	645	907	076	567	037
$\mu_A \xi_B$	$\xi_A \nu_B$	$\nu_A \xi_B$	$\xi_A \mu_B$	$\mu_A \xi_B$	$\mu_A \nu_B$	$\nu_A \mu_B$	$\xi_A \mu_B$	$\nu_A \xi_B$	$\xi_A \nu_B$	$\mu_0 \xi_B$	$\mu_9 \nu_A$
D_0	D_1	D_2	D_3	D_4	D_5	D_6	D_7	D_8	D_9	D_A	D_B
D_0	12349 12358 12367 123AB 12456 1247B 1248A 1257A 1259B 1268B 1269A 12789 13457 1346A 1348B 1356B 1359A 13689 1378A 1379B 14589 145AB 14678 1469B 1479A 15679 1568A 1578B 167AB 189AB 2345B 2346B 2347A 2356A 23579 2369B 2378B 2389A 24578 2459A 24679 246AB 2489B 2567B 25689 258AB 2678A 279AB 34569 3458A 3467B 34789 349AB 35678 357AB 3589B 3679A 368AB 4567A 4568B 4579B 4689A 478AB 569AB 5789A 6789B										
D_1	02347 0235A 02369 0238B 02459 0246B 0248A 02568 0257B 0267A 02789 029AB 03458 0346A 0349B 0356B 03579 03678 037AB 0389A 04567 045AB 04689 0478B 0479A 0569A 0578A 0589B 0679B 068AB 23456 23489 234AB 23578 2359B 2367B 2368A 2379A 2457A 2458B 24678 2469A 2479B 25679 256AB 2589A 2689B 278AB 3457B 3459A 34679 3468B 3478A 3567A 35689 358AB 369AB 3789B 4568A 4569B 45789 467AB 489AB 5678B 579AB 6789A										
D_2	01349 0135A 0136B 01378 01457 0146A 0148B 01568 0159B 01679 017AB 0189A 0345B 0346B 0347A 03567 03589 0369A 0379B 038AB 04569 0458A 0467B 04789 049AB 056AB 0578B 0579A 0678A 0689B 13458 13467 134AB 13569 1357B 1368A 1379A 1389B 1456B 1459A 14689 1478A 1479B 1567A 15789 158AB 1678B 169AB 3456A 34579 3469B 3478B 3489A 3568B 3578A 359AB 36789 367AB 45678 457AB 4589B 4679A 468AB 5679B 5689A 789AB										
D_3	01249 0125A 0126B 01278 01456 0147B 0148A 01579 0158B 0167A 01689 019AB 0245B 0246B 0247A 02567 02589 0269A 0279B 028AB 04578 0459A 04679 046AB 0489B 0568A 0569B 057AB 0678B 0789A 12458 12467 124AB 12569 1257B 1268A 1279A 1289B 1457A 1459B 1468B 1469A 14789 1567B 156AB 1589A 1679B 178AB 23456A 24579 2469B 2478B 2489A 2568B 2578A 259AB 26789 267AB 4567B 45689 458AB 4678A 479AB 5679A 5789B 689AB										
D_4	01239 01256 0127B 0128A 01357 0136A 0138B 0158B 015AB 01678 0169B 0179A 0235B 0236B 0237A 0257B 0259A 02679 026AB 0289B 03569 0358A 0367B 03789 039AB 0567A 0568B 0579B 0689A 078AB 1235A 1236B 1237B 12579 1258B 1267A 12689 129AB 1356B 1359B 13679 137AB 1389A 1567B 1569A 1578A 168AB 1789B 23567 23589 2369A 2379B 238AB 2568A 2569B 257AB 2678B 2789A 356AB 3578B 3579A 3678A 3689B 56789 589AB 679AB										
D_5	01236 01247 0128B 0129A 01348 0137A 0138A 01469 014AB 0167B 0168A 01789 0234B 02379 0238A 0246A 02489 02678 0269B 027AB 03467 0349A 03689 036AB 0378B 0468B 0478A 0479B 0679A 089AB 1234A 1237B 12389 12468 1249B 12679 126AB 1278A 1346B 13479 13678 1369A 138AB 1467A 1478B 1489B 179AB 23469 23478 2367A 2368B 239AB 2467B 2479A 248AB 2689A 2789B 3468A 347AB 3489B 3498B 3679B 3789A 46789 469AB 678AB										

D_6	: 01237 0124A 0125B 01289 0134B 01358 0139A 01459 01478 0157A 0179B 018AB 02348 02359 023AB 02457 0249B 0258A 0278B 0279A 0345A 03479 0357B 0378A 0389B 0458B 047AB 0489A 05789 059AB 12345 1238A 1239B 12479 1248B 12578 1259A 127AB 1347A 13489 13579 135AB 1378B 1457B 1458A 149AB 1589B 1789A 2347B 2349A 2357A 2358B 23789 24589 245AB 2478A 2579B 289AB 34578 3459B 348AB 3589A 379AB 4579A 4789B 578AB
D_7	: 01234 01259 01268 012AB 0135B 01369 0138A 01458 0146B 0149A 0156A 0189B 02358 0236A 0239B 0245A 02469 0248B 0256B 0289A 03456 03489 034AB 0359A 0368B 0459B 0468A 05689 058AB 069AB 12356 1238B 1239A 1245B 1246A 12489 1258A 1269B 1345A 1346B 1349B 13589 136AB 14569 148AB 1568B 159AB 1689A 23459 2346B 2348A 235AB 23689 24568 249AB 2569A 2589B 268AB 3458B 3469A 3568A 3569B 389AB 456AB 4589A 4689B
D_8	: 0123B 01245 01269 0127A 0134A 01356 01379 01467 0149B 0157B 0159A 016AB 02346 02357 0239A 02479 024AB 0256A 0259B 0267B 03459 0347B 035AB 0367A 0369B 0456B 0457A 0469A 05679 079AB 12347 12359 1236A 1246B 1249A 12567 125AB 1279B 1345B 13469 1357A 1367B 139AB 1456A 14579 147AB 1569B 1679A 2345A 2349B 2356B 23679 237AB 24569 2457B 2467A 2579A 269AB 34567 346AB 3479A 3569A 3579B 459AB 4679B 567AB
D_9	: 01238 0124B 01257 0126A 01345 01367 013AB 01468 0147A 0156B 0158A 0178B 0234A 02356 0237B 02458 02467 025AB 0268B 0278A 0346B 03478 0357A 0358B 0368A 0456A 0457B 048AB 05678 067AB 12346 1235B 1237A 1245A 1247B 12568 1267B 128AB 1347B 1348A 1356A 13578 1368B 14567 1458B 146AB 157AB 1678A 23457 2348B 2358A 23678 236AB 2456B 2468A 247AB 2567A 2578B 34568 345AB 3467A 3567B 378AB 4578A 4678B 568AB
D_A	: 01235 01248 01267 0129B 01346 0137B 01389 0145B 01479 01569 01578 0168B 02349 0236B 0237B 02456 0247B 02579 0258B 02689 03457 0348B 0356B 0359B 03679 0458B 0467B 0469B 0567B 0789B 1234B 1236B 12379 12457 12469 1256B 1258B 1278B 1345B 13478 13567 1358B 1369B 14568 1467B 1489B 1579B 16789 23458 23467 23569 2357B 2389B 2459B 2468B 24789 2567B 2679B 3456B 34689 3479B 35789 3678B 45679 4578B 5689B
D_B	: 0123A 01246 01258 01279 01347 01359 01368 0145A 01489 01567 0169A 0178A 02345 02367 02389 02478 0249A 02569 0257A 0268A 03469 0348A 0356A 03578 0379A 0456B 04579 0467A 0589A 06789 12348 12357 12369 12459 1247A 1256A 1267B 1289A 13456 1349A 1358A 1367A 1378B 14578 14679 1468A 15689 1579A 2346A 23479 23568 2359A 2378A 24567 2458A 24689 25789 2679A 3457A 34589 34678 35679 3689A 4569A 4789A 5678A

Overlarge Set 24

123	230	130	120	127	129	128	124	126	125	123	125
478	469	498	467	309	307	347	350	359	340	596	867
596	758	765	895	865	684	509	968	407	786	478	034
$\nu_{A\bar{C}B}$	$\mu_{A\bar{C}B}$	$\nu_{A\bar{\mu}B}$	$\mu_{A\bar{\mu}B}$	$\nu_{A\bar{C}B}$	$\xi_{A\bar{\mu}B}$	$\mu_{A\bar{C}B}$	$\mu_{A\bar{\mu}B}$	$\xi_{A\bar{\mu}B}$	$\nu_{A\bar{\mu}B}$	$\mu_{A\bar{\mu}B}$	$\mu_{9\bar{\mu}A}$
D_0	D_1	D_2	D_3	D_4	D_5	D_6	D_7	D_8	D_9	D_A	D_B

D_0	: 12345 12368 12379 123AB 12467 1248A 1249B 1256B 1257A 12589 1269A 1278B 1346A 1347B 13489 13567 1358B 1359A 1369B 1378A 14569 14578 145AB 1468B 1479A 1568A 1579B 16789 167AB 189AB 23469 2347A 2348B 2356A 2357B 2359B 2367B 2389A 2456B 2457B 2459A 246AB 2478B 25679 258AB 2678A 2689B 279AB 3456B 34579 3458A 34678 349AB 35689 357AB 3679A 368AB 3789B 4567A 4589B 4679B 4689A 478AB 5678B 569AB 5789A
D_1	: 02345 02368 02379 023AB 02467 0248A 0249B 0256B 0257A 02589 0269A 0278B 0346A 0347B 03489 03567 0358B 0359A 0369B 0378A 04569 04578 045AB 0468B 0479A 0568A 0579B 06789 067AB 089AB 2346B 2347B 2349A 23569 2357B 2358A 2367A 2389B 2456A 24579 2458B 24689 247AB 25678 259AB 2679B 268AB 2789A 3456B 3457A 3459B 34679 348AB 356AB 35789 3678B 3689A 379AB 4567B 4589A 4678A 469AB 4789B 5679A 5689B 578AB
D_2	: 01345 01368 01379 013AB 01467 0148A 0149B 0156B 0157A 01589 0169A 0178B 03469 0347A 0348B 0356A 03578 0359B 0367B 0389A 04568 0457B 0459A 046AB 04789 05679 058AB 0678A 0689B 079AB 1346B 1347B 1349A 13569 1357B 1358A 1367A 1389B 1456A 14579 1458B 14689 147AB 15678 159AB 1679B 168AB 1789A 34567 34589 345AB 3468A 3479B 3568B 3579A 36789 369AB 378AB 4569B 4578A 4678B 4679A 489AB 567AB 5689A 5789B

D_3 : 01245 01268 01279 012AB 0146A 0147B 01489 01567 0158B 0159A 0169B
 0178A 02469 0247A 0248B 0256A 0257B 0259B 0267B 0289A 0456B 04579
 0458A 04678 049AB 05689 057AB 0679A 068AB 0789B 1246B 12478 1249A
 12569 1257B 1258A 1267A 1289B 1456B 1457A 1459B 14679 148AB 156AB
 15789 1678B 1689A 179AB 24567 24589 245AB 2468A 2479B 2568B 2579A
 26789 269AB 278AB 4569A 4578B 467AB 4689B 4789A 5678A 5679B 589AB
 D_4 : 01235 01267 0128A 0129B 0136A 0137B 01389 01569 01578 015AB 0168B
 0179A 02369 0237A 0238B 0256B 0257B 0259A 026AB 02789 0356B 03579
 0358A 03678 039AB 0567A 0589B 0679B 0689A 078AB 1236B 1237B 1239A
 1256A 12579 1258B 12689 127AB 1356B 1357A 1359B 13679 138AB 1567B
 1589A 1678A 169AB 1789B 23567 23589 235AB 2368A 2379B 2569B 2578A
 2678B 2679A 289AB 3569A 3578B 367AB 3689B 3789A 56789 568AB 579AB
 D_5 : 01234 0126B 0127A 01289 01367 0138B 0139A 01469 01478 014AB 0168A
 0179B 0236A 0237B 0239B 0246B 0247B 0249A 02679 028AB 0346B 03479
 0348A 03689 037AB 0467A 0489B 0678B 069AB 0789A 12369 1237B 1238A
 1246A 12479 1248B 12678 129AB 1346B 1347A 1349B 136AB 13789 1467B
 1489A 1679A 1689B 178AB 23467 23489 234AB 2368B 2379A 2469B 2478A
 267AB 2689A 2789B 3469A 3478B 3678B 3679B 389AB 46789 468AB 479AB
 D_6 : 01238 01247 0125B 0129A 0134A 01357 0139B 01459 0148B 0158A 01789
 017AB 02349 0235A 0237B 0245B 024AB 02579 0278A 0289B 0345B 03478
 03589 0379A 038AB 0457A 0479B 0489A 0578B 059AB 1234B 12359 1237A
 1245A 12489 12578 1279B 128AB 1345B 13479 135AB 1378B 1389A 1457B
 1478A 149AB 1579A 1589B 23457 2348A 2358B 23789 239AB 2459B 2478B
 2479A 257AB 2589A 3459A 347AB 3489B 3578A 3579B 45789 458AB 789AB
 D_7 : 01239 01246 0125A 0128B 0134B 01356 0138A 01458 0149A 0159B 01689
 016AB 0234A 02358 0236B 0245B 0248B 02569 0268A 029AB 03459 03468
 035AB 0369A 0389B 0456A 0469B 048AB 0568B 0589A 12348 1235B 1236A
 12459 124AB 12568 1269B 1289A 1345A 13469 13589 1368B 139AB 1456B
 1468A 1489B 1569A 158AB 23456 2349B 2359A 23689 238AB 2458A 2468B
 2469A 256AB 2589B 3458B 346AB 3489A 3568A 3569B 45689 459AB 689AB
 D_8 : 01236 0124A 01259 0127B 01349 0135B 0137A 01457 0146B 0156A 01679
 019AB 0234B 02357 0239A 02456 02479 025AB 0267A 0269B 0345A 03467
 03569 036AB 0379B 0459B 0469A 047AB 0567B 0579A 12347 1235A 1239B
 1245B 12469 12567 126AB 1279A 13456 134AB 13579 1367B 1369A 1459A
 1467A 1479B 1569B 157AB 23459 2346A 2356B 23679 237AB 2457A 2467B
 249AB 2569A 2579B 3457B 3469B 3479A 3567A 359AB 45679 456AB 679AB
 D_9 : 01237 0124B 01258 0126A 0134B 0135A 0136B 01456 0147A 0157B 01678
 018AB 02346 0235B 0238A 0245A 02478 02567 0268B 027AB 03457 034AB
 03568 0367A 0378B 0458B 0467B 0468A 056AB 0578A 1234A 12356 1238B
 12457 1246B 125AB 1267B 1278A 1345B 13467 13578 1368A 137AB 1458A
 146AB 1478B 1567A 1568B 23458 2347B 2357A 23678 236AB 2456B 2467A
 248AB 2568A 2578B 3456A 3468B 3478A 3567B 358AB 45678 457AB 678AB
 D_A : 0123B 01248 01257 01269 01346 01359 01378 0145B 01479 01568 0167B
 0189B 02347 02356 02389 02459 0246B 0258B 02678 0279B 03458 0349B
 0357B 03679 0368B 04567 04689 0478B 0569B 05789 12349 12358 12367
 12456 1247B 1259B 1268B 12789 13457 1348B 1356B 13689 1379B 14589
 14678 1469B 15679 1578B 2345B 2346B 23579 2369B 2378B 24578 24679
 2489B 2567B 25689 34569 3467B 34789 35678 3589B 4568B 4579B 6789B
 D_B : 0123A 01249 01256 01278 01347 01358 01369 0145A 01468 01579 0167A
 0189A 02348 02359 02367 02457 0246A 0258A 02689 0279A 03456 0349A
 0357A 0368A 03789 04589 04679 0478A 05678 0569A 12346 12357 12389
 12458 1247A 1259A 12679 1268A 13459 1348A 1356A 13678 1379A 14567
 1469A 14789 15689 1578A 2345A 23479 23568 2369A 2378A 24569 24678
 2489A 2567A 25789 34578 3467A 34689 35679 3589A 4568A 4579A 6789A

Table 2 : The automorphism groups of the 24 non-isomorphic overlarge sets of $12 \times 4\text{-}(11, 5, 1)$ designs.

Overlarge Set	Group Order	Group Generators
1	4	(04) (15) (28) (3B) (69) (7A) , (03) (16) (2A) (4B) (59) (78)
2	6	(02) (4A) (59) (6B) , (04) (15) (26) (AB)
3	12	(02) (4A) (59) (6B) , (0A7428) (19B365)
4	16	(0275) (4A8B) , (04) (13) (2A) (5B) (69) (78) , (07) (16) (39) (48)
5	24	(295B) (38A7) , (038) (1B2) (4A7) (569)
6	16	(04) (39) (78) (AB) , (25) (3A) (78) (9B) , (0748) (1562)
7	64	(12) (56) (78) (AB) , (04) (1A596B23) , (0847) (195A632B)
8	48	(04) (12) (7B) (8A) , (0B84A7) (265) (39)
9	1440	(04) (12) (7B) (8A) , (04) (158AB69372)
10	192	(0842) (1573) (6A) (89) , (04) (29AB86) (375)
11	10	(026B9) (374A8) , (03) (15) (28) (4B) (6A) (79)
12	4	(04) (13) (2A) (5B) (69) (78) , (05) (4B) (68) (79)
13	8	(01) (26) (35) (4B) (79) (8A) , (02) (1B) (35) (4A) (68) (79)
14	32	(04) (23) (5B) (68) , (04) (17) (68) (9A) , (014A) (59B7)
15	40	(03) (12) (4A) (59) (67) (8B) , (379B) (5A68)
16	8	(069A) (3479) , (08) (15) (2B) (49)
17	60	(12986) (3BA75) , (0A615) (23B84)
18	16	(0218) (4BA5) , (04) (1A) (25) (37) (69) (8B) , (28) (36) (5B) (79)
19	48	(01) (2873) (4B) (56A9) , (095132) (487B6A)
20	48	(04) (13) (2B) (57) (68) (9A) , (0721) (46BA)
21	48	(0325) (48B9) , (0A) (14) (26) (39) (58) (7B)
22	240	(021789) (34BA65) , (04) (13) (26) (58) (7B) (9A)
23	192	(0243) (58B6) , (029B81) (3756A4)
24	95040	(12) (34) (78) (9A) , (0341795B62) (8A)

Table 3 : The isomorphism types of the 12 contractions from each of the 24 overlarge sets of 12 mutually disjoint 4-(11, 5, 1) designs.

Overlarge Set	D_0	D_1	D_2	D_3	D_4	D_5	D_6	D_7	D_8	D_9	D_A	D_B
1	1	7	2	1	1	7	7	2	2	7	2	1
2	1	10	1	11	1	10	1	5	6	10	1	1
3	3	1	3	1	3	1	1	3	3	1	3	1
4	1	9	1	9	1	1	9	1	1	9	1	1
5	3	2	2	3	3	2	2	3	3	2	3	2
6	6	8	8	2	6	8	8	6	6	2	2	2
7	4	3	3	3	4	3	3	4	4	3	3	3
8	3	6	6	5	3	6	6	3	3	5	3	3
9	21	4	4	4	21	4	4	4	4	4	4	4
10	5	16	5	16	5	16	5	16	5	5	5	5
11	7	12	7	7	7	12	7	7	7	7	7	7
12	7	13	8	13	7	7	10	10	10	10	8	7
13	7	7	7	14	7	14	7	9	7	9	7	7
14	8	8	20	20	8	8	16	8	16	8	8	8
15	9	19	19	9	9	9	9	9	9	9	9	9
16	11	15	9	10	10	15	11	10	11	10	11	9
17	12	12	12	12	12	12	12	12	12	12	12	12
18	13	13	13	15	13	13	15	15	13	15	13	13
19	14	14	14	14	14	14	14	14	14	14	14	14
20	17	17	17	17	17	17	17	17	17	17	17	17
21	18	18	18	18	18	18	18	18	18	18	18	18
22	19	19	19	19	19	19	19	19	19	19	19	19
23	20	20	20	20	20	20	20	20	20	20	20	20
24	21	21	21	21	21	21	21	21	21	21	21	21