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1----- 2----- 4----- 3          CC4^3/8^2
| 5           6           8           | 7           1 2 4 3 29 30 32 31
9   37      10   38      12   40      11   39      9 10 12 11 21 22 24 23
| 13      33----14----34----16----36----+15----35  25 26 28 27 5 6 8 7
25  45 | 26  46  28  48  27  47 | 17 18 20 19 13 14 16 15
| 29  41 | 30  42  32  44 | 31  43  36 35 33 34 64 63 61 62
17----61--|18----62----20----64----19  63 | 44 43 41 42 56 55 53 54
      21  57  22  58  24  60  23  59  60 59 57 58 40 39 37 38
          53 |           54           56           55 | 52 51 49 50 48 47 45 46
          49-----50-----52-----51

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[B]

EC2^6/

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1---- 2      3---- 4      33----34      35----36
| 17----18 | 19----20 | 49----50 | 51----52
5--| 6 | 7--| 8 | 37--|38 | 39--|40 |
 21----22      23----24      53----54      55----56

9----10      11----12      41----42      43----44
| 25----26 | 27----28 | 57----58 | 59----60
13--|14 | 15--|16 | 45--|46 | 47--|48 |
 29----30      31----32      61----62      63----64

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1----- 2----- 3----- 4          SC4^3/8^2
| 17           18           19           | 20           1 2 3 4 17 18 19 20
5   33      6   34      7   35      8   36      5 6 7 8 21 22 23 24
| 21      49----22----50----23----51--24----52  9 10 11 12 25 26 27 28
9   37 | 10   38  11   39  12   40 | 13 14 15 16 29 30 31 32
| 25  53 | 26  54  27  55 | 28  56  33 34 35 36 49 50 51 52
13----41--|14----42----15----43----16  44 | 37 38 39 40 53 54 55 56
      29  57  30  58  31  59  32  60  41 42 43 44 57 58 59 60
          45 |           46           47           48 | 45 46 47 48 61 62 63 64
          61-----62-----63-----64

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1----- 2----- 4----- 3          CC4^3/8^2
| 17           18           20           | 19           1 2 4 3 29 30 32 31
5   49      6   50      8   52      7   51      5 6 8 7 25 26 28 27
| 21      33----22----34----24----36----+23----35  13 14 16 15 17 18 20 19
13  53 | 14  54  16  56  15  55 | 9 10 12 11 21 22 24 23
| 29  37 | 30  38  32  40 | 31  39  36 35 33 34 64 63 61 62
9----61--|10----62----12----64----11  63 | 40 39 37 38 60 59 57 58
      25  45  26  46  28  48  27  47  48 47 45 46 52 51 49 50
          57 |           58           60           59 | 44 43 41 42 56 55 53 54
          41-----42-----44-----43

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** Type #1 of 720 View-Forms(n1=1) for the Devel oped EC02^6 **

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9 10 11 12 13 14 15 16	9 11 10 12 13 15 14 16	9 10 13 14 11 12 15 16	9 11 13 15 10 12 14 16	
17 18 19 20 21 22 23 24	17 19 18 20 21 23 22 24	17 18 21 22 19 20 23 24	17 19 21 23 18 20 22 24	
25 26 27 28 29 30 31 32	25 27 26 28 29 31 30 32	25 26 29 30 27 28 31 32	25 27 29 31 26 28 30 32	
33 34 35 36 37 38 39 40	33 35 34 36 37 39 38 40	33 34 37 38 35 36 39 40	33 35 37 39 34 36 38 40	
41 42 43 44 45 46 47 48	41 43 42 44 45 47 46 48	41 42 45 46 43 44 47 48	41 43 45 47 42 44 46 48	
49 50 51 52 53 54 55 56	49 51 50 52 53 55 54 56	49 50 53 54 51 52 55 56	49 51 53 55 50 52 54 56	
57 58 59 60 61 62 63 64	57 59 58 60 61 63 62 64	57 58 61 62 59 60 63 64	57 59 61 63 58 60 62 64	
	5/	6/	7/	8/
1 5 2 6 3 7 4 8	1 5 3 7 2 6 4 8	1 2 3 4 9 10 11 12	1 3 2 4 9 11 10 12	
9 13 10 14 11 15 12 16	9 13 11 15 10 14 12 16	5 6 7 8 13 14 15 16	5 7 6 8 13 15 14 16	
17 21 18 22 19 23 20 24	17 21 19 23 18 22 20 24	17 18 19 20 25 26 27 28	17 19 18 20 25 27 26 28	
25 29 26 30 27 31 28 32	25 29 27 31 26 30 28 32	21 22 23 24 29 30 31 32	21 23 22 24 29 31 30 32	
33 37 34 38 35 39 36 40	33 37 35 39 34 38 36 40	33 34 35 36 41 42 43 44	33 35 34 36 41 43 42 44	
41 45 42 46 43 47 44 48	41 45 43 47 42 46 44 48	37 38 39 40 45 46 47 48	37 39 38 40 45 47 46 48	
49 53 50 54 51 55 52 56	49 53 51 55 50 54 52 56	49 50 51 52 57 58 59 60	49 51 50 52 57 59 58 60	
57 61 58 62 59 63 60 64	57 61 59 63 58 62 60 64	53 54 55 56 61 62 63 64	53 55 54 56 61 63 62 64	

1 2 5 6 9 10 13 14	1 3 5 7 9 11 13 15	1 5 2 6 9 13 10 14	1 5 3 7 9 13 11 15
3 4 7 8 11 12 15 16	2 4 6 8 10 12 14 16	3 7 4 8 11 15 12 16	2 6 4 8 10 14 12 16
17 18 21 22 25 26 29 30	17 19 21 23 25 27 29 31	17 21 18 22 25 29 26 30	17 21 19 23 25 29 27 31
19 20 23 24 27 28 31 32	18 20 22 24 26 28 30 32	19 23 20 24 27 31 28 32	18 22 20 24 26 30 28 32
33 34 37 38 41 42 45 46	33 35 37 39 41 43 45 47	33 37 34 38 41 45 42 46	33 37 35 39 41 45 43 47
35 36 39 40 43 44 47 48	34 36 38 40 42 44 46 48	35 39 36 40 43 47 44 48	34 38 36 40 42 46 44 48
49 50 53 54 57 58 61 62	49 51 53 55 57 59 61 63	49 53 50 54 57 61 58 62	49 53 51 55 57 61 59 63
51 52 55 56 59 60 63 64	50 52 54 56 58 60 62 64	51 55 52 56 59 63 60 64	50 54 52 56 58 62 60 64
9/	10/	11/	12/
1 2 9 10 3 4 11 12	1 3 9 11 2 4 10 12	1 2 9 10 5 6 13 14	1 3 9 11 5 7 13 15
5 6 13 14 7 8 15 16	5 7 13 15 6 8 14 16	3 4 11 12 7 8 15 16	2 4 10 12 6 8 14 16
17 18 25 26 19 20 27 28	17 19 25 27 18 20 26 28	17 18 25 26 21 22 29 30	17 19 25 27 21 23 29 31
21 22 29 30 23 24 31 32	21 23 29 31 22 24 30 32	19 20 27 28 23 24 31 32	18 20 26 28 22 24 30 32
33 34 41 42 35 36 43 44	33 35 41 43 34 36 42 44	33 34 41 42 37 38 45 46	33 35 41 43 37 39 45 47
37 38 45 46 39 40 47 48	37 39 45 47 38 40 46 48	35 36 43 44 39 40 47 48	34 36 42 44 38 40 46 48
49 50 57 58 51 52 59 60	49 51 57 59 50 52 58 60	49 50 57 58 53 54 61 62	49 51 57 59 53 55 61 63
53 54 61 62 55 56 63 64	53 55 61 63 54 56 62 64	51 52 59 60 55 56 63 64	50 52 58 60 54 56 62 64
13/	14/	15/	16/
1 5 9 13 2 6 10 14	1 5 9 13 3 7 11 15	1 9 2 10 3 11 4 12	1 9 3 11 2 10 4 12
3 7 11 15 4 8 12 16	2 6 10 14 4 8 12 16	5 13 6 14 7 15 8 16	5 13 7 15 6 14 8 16
17 21 25 29 18 22 26 30	17 21 25 29 19 23 27 31	17 25 18 26 19 27 20 28	17 25 19 27 18 26 20 28
19 23 27 31 20 24 28 32	18 22 26 30 20 24 28 32	21 29 22 30 23 31 24 32	21 29 23 31 22 30 24 32
33 37 41 45 34 38 42 46	33 37 41 45 35 39 43 47	33 41 34 42 35 43 36 44	33 41 35 43 34 42 36 44
35 39 43 47 36 40 44 48	34 38 42 46 36 40 44 48	37 45 38 46 39 47 40 48	37 45 39 47 38 46 40 48
49 53 57 61 50 54 58 62	49 53 57 61 51 55 59 63	49 57 50 58 51 59 52 60	49 57 51 59 50 58 52 60
51 55 59 63 52 56 60 64	50 54 58 62 52 56 60 64	53 61 54 62 55 63 56 64	53 61 55 63 54 62 56 64
17/	18/	19/	20/
1 9 2 10 5 13 6 14	1 9 3 11 5 13 7 15	1 9 5 13 2 10 6 14	1 9 5 13 3 11 7 15
3 11 4 12 7 15 8 16	2 10 4 12 6 14 8 16	3 11 7 15 4 12 8 16	2 10 6 14 4 12 8 16
17 25 18 26 21 29 22 30	17 25 19 27 21 29 23 31	17 25 21 29 18 26 22 30	17 25 21 29 19 27 23 31
19 27 20 28 23 31 24 32	18 26 20 28 22 30 24 32	19 27 23 31 20 28 24 32	18 26 22 30 20 28 24 32
33 41 34 42 37 45 38 46	33 41 35 43 37 45 39 47	33 41 37 45 34 42 38 46	33 41 37 45 35 43 39 47
35 43 36 44 39 47 40 48	34 42 36 44 38 46 40 48	35 43 39 47 36 44 40 48	34 42 38 46 36 44 40 48
49 57 50 58 53 61 54 62	49 57 51 59 53 61 55 63	49 57 53 61 50 58 54 62	49 57 53 61 51 59 55 63
51 59 52 60 55 63 56 64	50 58 52 60 54 62 56 64	51 59 55 63 52 60 56 64	50 58 54 62 52 60 56 64
21/	22/	23/	24/
1 2 3 4 5 6 7 8	1 3 2 4 5 7 6 8	1 2 5 6 3 4 7 8	1 3 5 7 2 4 6 8
9 10 11 12 13 14 15 16	9 11 10 12 13 15 14 16	9 10 13 14 11 12 15 16	9 11 13 15 10 12 14 16
17 18 19 20 21 22 23 24	17 19 18 20 21 23 22 24	17 18 21 22 19 20 23 24	17 19 21 23 18 20 22 24
25 26 27 28 29 30 31 32	25 27 26 28 29 31 30 32	25 26 29 30 27 28 31 32	25 27 29 31 26 28 30 32
33 34 35 36 37 38 39 40	33 35 34 36 37 39 38 40	33 34 37 38 35 36 39 40	33 35 37 39 34 36 38 40
49 50 51 52 53 54 55 56	49 51 50 52 53 55 54 56	49 50 53 54 51 52 55 56	49 51 53 55 50 52 54 56
41 42 43 44 45 46 47 48	41 43 42 44 45 47 46 48	41 42 45 46 43 44 47 48	41 43 45 47 42 44 46 48
57 58 59 60 61 62 63 64	57 59 58 60 61 63 62 64	57 58 61 62 59 60 63 64	57 59 61 63 58 60 62 64
25/	26/	27/	28/
1 5 2 6 3 7 4 8	1 5 3 7 2 6 4 8	1 2 3 4 9 10 11 12	1 3 2 4 9 11 10 12
9 13 10 14 11 15 12 16	9 13 11 15 10 14 12 16	17 18 19 20 25 26 27 28	17 19 18 20 25 27 26 28
25 29 26 30 27 31 28 32	25 29 27 31 26 30 28 32	5 6 7 8 13 14 15 16	5 7 6 8 13 15 14 16
33 37 34 38 35 39 36 40	33 37 35 39 34 38 36 40	21 22 23 24 29 30 31 32	21 23 22 24 29 31 30 32
49 53 50 54 51 55 52 56	49 53 51 55 50 54 52 56	33 34 35 36 41 42 43 44	33 35 34 36 41 43 42 44
41 45 42 46 43 47 44 48	41 45 43 47 42 46 44 48	49 50 51 52 57 58 59 60	49 51 50 52 57 59 58 60
57 61 58 62 59 63 60 64	57 61 59 63 58 62 60 64	37 38 39 40 45 46 47 48	37 39 38 40 45 47 46 48
33/	34/	35/	36/
1 2 5 6 9 10 13 14	1 3 5 7 9 11 13 15	1 5 2 6 9 13 10 14	1 5 3 7 9 13 11 15
17 18 21 22 25 26 29 30	17 19 21 23 25 27 29 31	17 21 18 22 25 29 26 30	17 21 19 23 25 29 27 31
3 4 7 8 11 12 15 16	2 4 6 8 10 12 14 16	3 7 4 8 11 15 12 16	2 6 4 8 10 14 12 16
19 20 23 24 27 28 31 32	18 20 22 24 26 28 30 32	19 23 20 24 27 31 28 32	18 22 20 24 26 30 28 32
33 34 37 38 41 42 45 46	33 35 37 39 41 43 45 47	33 37 34 38 41 45 42 46	33 37 35 39 41 45 43 47
49 50 53 54 57 58 61 62	49 51 53 55 57 59 61 63	49 53 50 54 57 61 58 62	49 53 51 55 57 61 59 63
35 36 39 40 43 44 47 48	34 36 38 40 42 44 46 48	35 39 36 40 43 47 44 48	34 38 36 40 42 46 44 48
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37/	38/	39/	40/
1 2 9 10 3 4 11 12	1 3 9 11 2 4 10 12	1 2 9 10 5 6 13 14	1 3 9 11 5 7 13 15
17 18 25 26 19 20 27 28	17 19 25 27 18 20 26 28	17 18 25 26 21 22 29 30	17 19 25 27 21 23 29 31
5 6 13 14 7 8 15 16	5 7 13 15 6 8 14 16	3 4 11 12 7 8 15 16	2 4 10 12 6 8 14 16
21 22 29 30 23 24 31 32	21 23 29 31 22 24 30 32	19 20 27 28 23 24 31 32	18 20 26 28 22 24 30 32
33 34 41 42 35 36 43 44	33 35 41 43 34 36 42 44	33 34 41 42 37 38 45 46	33 35 41 43 37 39 45 47
49 50 57 58 51 52 59 60	49 51 57 59 50 52 58 60	49 50 57 58 53 54 61 62	49 51 57 59 53 55 61 63
37 38 45 46 39 40 47 48	37 39 45 47 38 40 46 48	35 36 43 44 39 40 47 48	34 36 42 44 38 40 46 48
53 54 61 62 55 56 63 64	53 55 61 63 54 56 62 64	51 52 59 60 55 56 63 64	50 52 58 60 54 56 62 64

41/ 1 5 9 13 2 6 10 14 17 21 25 29 18 22 26 30 3 7 11 15 4 8 12 16 19 23 27 31 20 24 28 32 33 37 41 45 34 38 42 46 49 53 57 61 50 54 58 62 35 39 43 47 36 40 44 48 51 55 59 63 52 56 60 64	42/ 1 5 9 13 3 7 11 15 17 21 25 29 19 23 27 31 2 6 10 14 4 8 12 16 18 22 26 30 20 24 28 32 33 37 41 45 35 39 43 47 49 53 57 61 51 55 59 63 34 38 42 46 36 40 44 48 50 54 58 62 52 56 60 64	43/ 1 9 2 10 3 11 4 12 17 25 18 26 19 27 20 28 5 13 6 14 7 15 8 16 21 29 22 30 23 31 24 32 33 41 34 42 35 43 36 44 49 57 50 58 51 59 52 60 37 45 38 46 39 47 40 48 53 61 54 62 55 63 56 64	44/ 1 9 3 11 2 10 4 12 17 25 19 27 18 26 20 28 5 13 7 15 6 14 8 16 21 29 23 31 22 30 24 32 33 41 35 43 34 42 36 44 49 57 51 59 50 58 52 60 37 45 39 47 38 46 40 48 53 61 55 63 54 62 56 64
45/ 1 9 2 10 5 13 6 14 17 25 18 26 21 29 22 30 3 11 4 12 7 15 8 16 19 27 20 28 23 31 24 32 33 41 34 42 37 45 38 46 49 57 50 58 53 61 54 62 35 43 36 44 39 47 40 48 51 59 52 60 55 63 56 64	46/ 1 9 3 11 5 13 7 15 17 25 19 27 21 29 23 31 2 10 4 12 6 14 8 16 18 26 20 28 22 30 24 32 33 41 35 43 37 45 39 47 49 57 51 59 53 61 55 63 34 42 36 44 38 46 40 48 50 58 52 60 54 62 56 64	47/ 1 9 5 13 2 10 6 14 17 25 21 29 18 26 22 30 3 11 7 15 4 12 8 16 19 27 23 31 20 28 24 32 33 41 37 45 34 42 38 46 49 57 53 61 50 58 54 62 35 43 39 47 36 44 40 48 51 59 55 63 52 60 56 64	48/ 1 9 5 13 3 11 7 15 17 25 21 29 19 27 23 31 2 10 6 14 4 12 8 16 18 26 22 30 20 28 24 32 33 41 37 45 35 43 39 47 49 57 53 61 51 59 55 63 34 42 38 46 36 44 40 48 50 58 54 62 52 60 56 64
49/ 1 2 3 4 17 18 19 20 5 6 7 8 21 22 23 24 9 10 11 12 25 26 27 28 13 14 15 16 29 30 31 32 33 34 35 36 49 50 51 52 37 38 39 40 53 54 55 56 41 42 43 44 57 58 59 60 45 46 47 48 61 62 63 64	50/ 1 3 2 4 17 19 18 20 5 7 6 8 21 23 22 24 9 11 10 12 25 27 26 28 13 15 14 16 29 31 30 32 33 35 34 36 49 51 50 52 37 39 38 40 53 55 54 56 41 43 42 44 57 59 58 60 45 47 46 48 61 63 62 64	51/ 1 2 5 6 17 18 21 22 3 4 7 8 19 20 23 24 9 10 13 14 25 26 29 30 11 12 15 16 27 28 31 32 33 34 37 38 49 50 53 54 35 36 39 40 51 52 55 56 41 42 45 46 57 58 61 62 43 44 47 48 59 60 63 64	52/ 1 3 5 7 17 19 21 23 2 4 6 8 18 20 22 24 9 11 13 15 25 27 29 31 10 12 14 16 26 28 30 32 33 35 37 39 49 51 53 55 34 36 38 40 50 52 54 56 41 43 45 47 57 59 61 63 42 44 46 48 58 60 62 64

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**** Type #2 of 64 View-Forms(n1=1-64) for the Developed EC02^6 ****

1/ 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64	2/ 2 1 4 3 6 5 8 7 10 9 12 11 14 13 16 15 18 17 20 19 22 21 24 23 26 25 28 27 30 29 32 31 34 33 36 35 38 37 40 39 42 41 44 43 46 45 48 47 50 49 52 51 54 53 56 55 58 57 60 59 62 61 64 63	3/ 3 4 1 2 7 8 5 6 11 12 9 10 15 16 13 14 19 20 17 18 23 24 21 22 27 28 25 26 31 32 29 30 35 36 33 34 39 40 37 38 43 44 41 42 47 48 45 46 51 52 49 50 55 56 53 54 59 60 57 58 63 64 61 62	4/ 4 3 2 1 8 7 6 5 12 11 10 9 16 15 14 13 20 19 18 17 24 23 22 21 28 27 26 25 32 31 30 29 36 35 34 33 40 39 38 37 44 43 42 41 48 47 46 45 52 51 50 49 56 55 54 53 60 59 58 57 64 63 62 61
5/ 5 6 7 8 1 2 3 4 13 14 15 16 9 10 11 12 21 22 23 24 17 18 19 20 29 30 31 32 25 26 27 28 37 38 39 40 33 34 35 36 45 46 47 48 41 42 43 44 53 54 55 56 49 50 51 52 61 62 63 64 57 58 59 60	6/ 6 5 8 7 2 1 4 3 14 13 16 15 10 9 12 11 22 21 24 23 18 17 20 19 30 29 32 31 26 25 28 27 38 37 40 39 34 33 36 35 46 45 48 47 42 41 44 43 54 53 56 55 50 49 52 51 62 61 64 63 58 57 60 59	7/ 7 8 5 6 3 4 1 2 15 16 13 14 11 12 9 10 23 24 21 22 19 20 17 18 31 32 29 30 27 28 25 26 39 40 37 38 35 36 33 34 47 48 45 46 43 44 41 42 55 56 53 54 51 52 49 50 63 64 61 62 59 60 57 58	8/ 8 7 6 5 4 3 2 1 16 15 14 13 12 11 10 9 24 23 22 21 20 19 18 17 32 31 30 29 28 27 26 25 40 39 38 37 36 35 34 33 48 47 46 45 44 43 42 41 56 55 54 53 52 51 50 49 64 63 62 61 60 59 58 57
9/ 9 10 11 12 13 14 15 16 1 2 3 4 5 6 7 8 25 26 27 28 29 30 31 32 17 18 19 20 21 22 23 24 41 42 43 44 45 46 47 48 33 34 35 36 37 38 39 40 57 58 59 60 61 62 63 64 49 50 51 52 53 54 55 56	10/ 10 9 12 11 14 13 16 15 2 1 4 3 6 5 8 7 26 25 28 27 30 29 32 31 18 17 20 19 22 21 24 23 42 41 44 43 46 45 48 47 34 33 36 35 38 37 40 39 58 57 60 59 62 61 64 63 50 49 52 51 54 53 56 55	11/ 11 12 9 10 15 16 13 14 3 4 1 2 7 8 5 6 27 28 25 26 31 32 29 30 19 20 17 18 23 24 21 22 43 44 41 42 47 48 45 46 35 36 33 34 39 40 37 38 59 60 57 58 63 64 61 62 51 52 49 50 55 56 53 54	12/ 12 11 10 9 16 15 14 13 4 3 2 1 8 7 6 5 28 27 26 25 32 31 30 29 20 19 18 17 24 23 22 21 44 43 42 41 48 47 46 45 36 35 34 33 40 39 38 37 60 59 58 57 64 63 62 61 52 51 50 49 56 55 54 53
13/ 13 14 15 16 9 10 11 12 5 6 7 8 1 2 3 4 29 30 31 32 25 26 27 28 21 22 23 24 17 18 19 20 45 46 47 48 41 42 43 44 37 38 39 40 33 34 35 36 61 62 63 64 57 58 59 60 53 54 55 56 49 50 51 52	14/ 14 13 16 15 10 9 12 11 6 5 8 7 2 1 4 3 30 29 32 31 26 25 28 27 22 21 24 23 18 17 20 19 46 45 48 47 42 41 44 43 38 37 40 39 34 33 36 35 62 61 64 63 58 57 60 59 54 53 56 55 50 49 52 51	15/ 15 16 13 14 11 12 9 10 7 8 5 6 3 4 1 2 31 32 29 30 27 28 25 26 23 24 21 22 19 20 17 18 47 48 45 46 43 44 41 42 39 40 37 38 35 36 33 34 63 64 61 62 59 60 57 58 55 56 53 54 51 52 49 50	16/ 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 48 47 46 45 44 43 42 41 40 39 38 37 36 35 34 33 64 63 62 61 60 59 58 57 56 55 54 53 52 51 50 49

17/ 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48	18/ 18 17 20 19 22 21 24 23 26 25 28 27 30 29 32 31 2 1 4 3 6 5 8 7 10 9 12 11 14 13 16 15 50 49 52 51 54 53 56 55 58 57 60 59 62 61 64 63 34 33 36 35 38 37 40 39 42 41 44 43 46 45 48 47	19/ 19 20 17 18 23 24 21 22 27 28 25 26 31 32 29 30 3 4 1 2 7 8 5 6 11 12 9 10 15 16 13 14 51 52 49 50 55 56 53 54 59 60 57 58 63 64 61 62 35 36 33 34 39 40 37 38 43 44 41 42 47 48 45 46	20/ 20 19 18 17 24 23 22 21 28 27 26 25 32 31 30 29 4 3 2 1 8 7 6 5 12 11 10 9 16 15 14 13 52 51 50 49 56 55 54 53 60 59 58 57 64 63 62 61 36 35 34 33 40 39 38 37 44 43 42 41 48 47 46 45
21/ 21 22 23 24 17 18 19 20 29 30 31 32 25 26 27 28 5 6 7 8 1 2 3 4 13 14 15 16 9 10 11 12 53 54 55 56 49 50 51 52 61 62 63 64 57 58 59 60 37 38 39 40 33 34 35 36 45 46 47 48 41 42 43 44	22/ 22 21 24 23 18 17 20 19 30 29 32 31 26 25 28 27 6 5 8 7 2 1 4 3 14 13 16 15 10 9 12 11 54 53 56 55 50 49 52 51 62 61 64 63 58 57 60 59 38 37 40 39 34 33 36 35 46 45 48 47 42 41 44 43	23/ 23 24 21 22 19 20 17 18 31 32 29 30 27 28 25 26 7 8 5 6 3 4 1 2 15 16 13 14 11 12 9 10 55 56 53 54 51 52 49 50 63 64 61 62 59 60 57 58 39 40 37 38 35 36 33 34 47 48 45 46 43 44 41 42	24/ 24 23 22 21 20 19 18 17 32 31 30 29 28 27 26 25 8 7 6 5 4 3 2 1 16 15 14 13 12 11 10 9 56 55 54 53 52 51 50 49 64 63 62 61 60 59 58 57 40 39 38 37 36 35 34 33 48 47 46 45 44 43 42 41
25/ 25 26 27 28 29 30 31 32 17 18 19 20 21 22 23 24 9 10 11 12 13 14 15 16 1 2 3 4 5 6 7 8 57 58 59 60 61 62 63 64 49 50 51 52 53 54 55 56 41 42 43 44 45 46 47 48 33 34 35 36 37 38 39 40	26/ 26 25 28 27 30 29 32 31 18 17 20 19 22 21 24 23 10 9 12 11 14 13 16 15 2 1 4 3 6 5 8 7 58 57 60 59 62 61 64 63 50 49 52 51 54 53 56 55 42 41 44 43 46 45 48 47 34 33 36 35 38 37 40 39	27/ 27 28 25 26 31 32 29 30 19 20 17 18 23 24 21 22 11 12 9 10 15 16 13 14 3 4 1 2 7 8 5 6 59 60 57 58 63 64 61 62 51 52 49 50 55 56 53 54 43 44 41 42 47 48 45 46 35 36 33 34 39 40 37 38	28/ 28 27 26 25 32 31 30 29 20 19 18 17 24 23 22 21 12 11 10 9 16 15 14 13 4 3 2 1 8 7 6 5 60 59 58 57 64 63 62 61 52 51 50 49 56 55 54 53 44 43 42 41 48 47 46 45 36 35 34 33 40 39 38 37

. . . . (Ski p). . . .

61/ 61 62 63 64 57 58 59 60 53 54 55 56 49 50 51 52 45 46 47 48 41 42 43 44 37 38 39 40 33 34 35 36 29 30 31 32 25 26 27 28 21 22 23 24 17 18 19 20 13 14 15 16 9 10 11 12 5 6 7 8 1 2 3 4	62/ 62 61 64 63 58 57 60 59 54 53 56 55 50 49 52 51 46 45 48 47 42 41 44 43 38 37 40 39 34 33 36 35 30 29 32 31 26 25 28 27 22 21 24 23 18 17 20 19 14 13 16 15 10 9 12 11 6 5 8 7 2 1 4 3	63/ 63 64 61 62 59 60 57 58 55 56 53 54 51 52 49 50 47 48 45 46 43 44 41 42 39 40 37 38 35 36 33 34 31 32 29 30 27 28 25 26 23 24 21 22 19 20 17 18 15 16 13 14 11 12 9 10 7 8 5 6 3 4 1 2	64/ 64 63 62 61 60 59 58 57 56 55 54 53 52 51 50 49 48 47 46 45 44 43 42 41 40 39 38 37 36 35 34 33 32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1
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All of them are different 'view-forms' of the same ECO2⁶.

How many different pictures in all can we draw, then?

As you guess, you may combine those 2 sets of view-forms above one by one, you can draw them so many as 46080 in all, because 720x64=46080.

But why do they count 46080? It is just the same count with the primitive solutions of 'composite & complete' magic cubes of order 4, or 'multiple' type of 'C&C' magic squares 8². It is also the same with the solution count of 'three-type simultaneous' magic squares of order 8: 'composite', pan-diagonal and self-complementary.

Is it only an accidental equality? It doesn't look so. What does it really mean?

When I watched those primitive 46080 view forms precisely, I noticed they are very similar to the solutions of 'Prototype Cubes' of order 4, which begins with the same form as the regular 3-dimensional array 4x4x4 at the first solution. They are also similar to the 'Prototype Squares' of order 8 that I made long before. The new sets of view forms are really just the same with the old Prototype sets.

Then I expected I could compose our object solutions directly by these Prototype Cubes or Prototype Squares and the "D(o it) A(fter the) M(odel) Transformation".

I was sure I could do that job well this time, surer than before.

I had to find any good 'Model' solutions and select the best one for our purpose.

#2. How to compose 'C&C' Magic Cubes 444

Now let's use this method actually and compose three types of magic things, 'C&C'

magic cubes 444 and 2 types of 'Composite' MS88: multiple and simultaneous.

(1) First of all we are going to draw all possible view-forms of developed ECO2⁶. We use 6-time loops of for(...) {...} sentences, which we produce binary numbers with.

For the first preparation we calculate two types of controller modifications and save our results to the tables in advance. We use the data afterward for the 6-time loops in 'indirect addressing mode', that is rather high-levelled technique of programming.

(2) Next we transform each view-form into our object. At first we make the solutions of Self-Complementary magic cubes 444 by DAM Transformation, and then we make 'Composite & Complete' MC by the type-conversion process from 'S-C' into 'C&C'.

The following diagrams illustrate Basic Forms, a representative solution selected for the 'Model' and the concept of 'DAM Transformation'. A half of elements must be changed by the 'self-complementary transformation', so as to make the solution into 'S-C' type. The result must be made into 'C&C' type in the end by the type-conversion.

**** Basic View-Diagram of Developed ECO2⁶(Prototype) ****

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1-----2-----3-----4          SC4^3/8^2
| 17          18          19          | 20          1  2  3  4 17 18 19 20
5  33        6  34        7  35        8  36          5  6  7  8 21 22 23 24
| 21  49---22---50---23---51---24---52          9 10 11 12 25 26 27 28
9  37  | 10  38    11  39    12  40  | 13 14 15 16 29 30 31 32
| 25  53  | 26  54  | 27  55  | 28  56  | 33 34 35 36 49 50 51 52
13---41---14---42---15---43---16  44  | 37 38 39 40 53 54 55 56
    29  57  30  58  31  59  32  60  | 41 42 43 44 57 58 59 60
        45  |          46          47          48  | 45 46 47 48 61 62 63 64
        61-----62-----63-----64

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**** Representative 'Model' Solution of S-C type ****

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1-----63-----62-----4          SC4^3/8^2
| 48          18          19          | 45          1 63 62  4 48 18 19 45
60  32        6  34        7  35        57  29          60  6  7 57 21 43 42 24
| 21  49---43---15---42---14---24---52          56 10 11 53 25 39 38 28
56  37  | 10  27  | 11  26  | 53  40  | 13 51 50 16 36 30 31 33
| 25  12  | 39  54  | 38  55  | 28  9  | 32 34 35 29 49 15 14 52
13---41---51---23---50---22---16  44  | 37 27 26 40 12 54 55  9
    36  8  30  58  31  59  33  5  | 41 23 22 44  8 58 59  5
        20  |          46          47          17  | 20 46 47 17 61  3  2 64
        61-----3-----2-----64

```

**** Type Conversion from S-C type into C&C Solution ****

```

1-----63-----4-----62          CC4^3/8^2
| 48          18          45          | 19          1 63  4 62 36 30 33 31
60  49        6  15  57  52  7  14          60  6 57  7 25 39 28 38
| 21  32---43---34---24---29---42---35          13 51 16 50 48 18 45 19
13  12  | 51  54  | 16  9  50  55  | 56 10 53 11 21 43 24 42
| 36  37  | 30  27  | 33  40  | 31  26  | 29 35 32 34 64  2 61  3
56---61---10---3---53---64---11  2  | 40 26 37 27  5 59  8 58
    25  20  39  46  28  17  38  47  | 17 47 20 46 52 14 49 15
        8  |          58          5  59  | 44 22 41 23  9 55 12 54
        41-----23-----44-----22

```

But we don't have to repeat going after all the process of transformation step by step as often as 960 times. In the actual case we only have to care for the result and write such a simple dictation to the rules as follows, in place of all the process.

/**/

/* Transform each Basic Diagram of 2⁶ directly into 'C&C' MC4³ */

```

d[1]=c[1];      d[2]=c[63];      d[3]=c[4];      d[4]=c[62];
d[5]=c[60];    d[6]=c[6];      d[7]=c[57];    d[8]=c[7];
d[9]=c[13];    d[10]=c[51];   d[11]=c[16];   d[12]=c[50];
d[13]=c[56];   d[14]=c[10];   d[15]=c[53];   d[16]=c[11];
d[17]=c[48];   d[18]=c[18];   d[19]=c[45];   d[20]=c[19];
d[21]=c[21];   d[22]=c[43];   d[23]=c[24];   d[24]=c[42];
d[25]=c[36];   d[26]=c[30];   d[27]=c[33];   d[28]=c[31];
d[29]=c[25];   d[30]=c[39];   d[31]=c[28];   d[32]=c[38];
d[33]=c[49];   d[34]=c[15];   d[35]=c[52];   d[36]=c[14];
d[37]=c[12];   d[38]=c[54];   d[39]=c[9];    d[40]=c[55];
d[41]=c[61];   d[42]=c[3];    d[43]=c[64];   d[44]=c[2];
d[45]=c[8];    d[46]=c[58];   d[47]=c[5];    d[48]=c[59];
d[49]=c[32];   d[50]=c[34];   d[51]=c[29];   d[52]=c[35];
d[53]=c[37];   d[54]=c[27];   d[55]=c[40];   d[56]=c[26];
d[57]=c[20];   d[58]=c[46];   d[59]=c[17];   d[60]=c[47];
d[61]=c[41];   d[62]=c[23];   d[63]=c[44];   d[64]=c[22];

```

```
/**/
```

Let's actually compose our object according to our design by this method.
The next list is a sample program of mine only with a few essential components.

```

/** New Method of Composing 'Composite & Complete' Magic Cubes 4^3 **/
/** Using All Possible View-Diagrams of Developed EC Objects 2^6 **/
/** 'NewCCMC4.c' built by Kanji Setsuda on Apr. 26, 2005 **/
/** Revised on Mar. 30, 2005 with MacOSX and Xcode 2.1 **/
/**/
#include <stdio.h>
/**/
/* Global Variables */
long int tcnt;
short int cnt;
short vc, pc;
short tv[65][6];
short td[721][6];
short nm[65];
long tnm[46081][65];
/**/
/* List of Sub-Procedures for our New Method */
void mkfv26(void), prmt26(void);
void d26(short x, short y);
void mksol26(void);
void pr2mc4(short x, short y);
void srt265(void), exc26(short x);
/**/
/* Main Program */
int main(){
    long int mm;
    short m, n;
    printf("\n** New Method of Composing Special Magic Squares 8^2 and Cubes 4^3 **\n");
    printf("** Using All Possible View-Diagrams of Developed EC Objects 2^6: **\n");
    printf("** Compose 960 Solutions of 'Composite & Complete' Magic Cubes 4^3 **\n");
    vc=0; mkfv26();
    pc=0; prmt26();
    for(m=0; m<vc; m++){ for(n=0; n<pc; n++){ d26(m, n); }}
    tcnt=vc*pc; cnt=0;
    for(mm=0; mm<tcnt; mm++){
        if((tnm[mm][1]<tnm[mm][62])&&(tnm[mm][1]<tnm[mm][56])&&(tnm[mm][1]<tnm[mm][32])){
            if((tnm[mm][1]<tnm[mm][11])&&(tnm[mm][1]<tnm[mm][41])&&(tnm[mm][1]<tnm[mm][35])){
                if((tnm[mm][1]<tnm[mm][22])&&(tnm[mm][63]>tnm[mm][60])&&(tnm[mm][60]>tnm[mm][48])){
                    tnm[cnt][0]=mm+1;
                    for(n=1; n<65; n++){ tnm[cnt][n]=tnm[mm][n]; }
                    cnt++; }}
    }
}

```

```

for(n=0; n<65; n++){tnm[cnt][n]=0; }
tcnt=cnt;
mksol 26();
srt265();
pr2mc4(1, 60); printf("\n");
pr2mc4(119, 122); printf("\n");
pr2mc4(239, 242); printf("\n");
pr2mc4(359, 362); printf("\n . . . (Ski p). . . \n\n");
pr2mc4(955, tcnt);
printf(" [Counts = %d] OK! \n", tcnt);
return 0;
}
/**/
/* Sub-Procedures for Extra-Cubic Objects of Order 2^6 */
/**/
void mkfv26(){
short d0, d1, d2, d3, d4, d5;
for(d0=0; d0<2; d0++){
for(d1=0; d1<2; d1++){
for(d2=0; d2<2; d2++){
for(d3=0; d3<2; d3++){
for(d4=0; d4<2; d4++){
for(d5=0; d5<2; d5++){
tv[vc][0]=d0; tv[vc][1]=d1; tv[vc][2]=d2;
tv[vc][3]=d3; tv[vc][4]=d4; tv[vc][5]=d5;
vc++;
}}}}}}
}
/**/
void prmt26(void){
short d0, d1, d2, d3, d4, d5, n;
short uflg[6];
for(n=0; n<6; n++){uflg[n]=0; }
for(d0=0; d0<6; d0++){
uflg[d0]=1;
for(d1=0; d1<6; d1++){
if(uflg[d1]==0){uflg[d1]=1;
for(d2=0; d2<6; d2++){
if(uflg[d2]==0){uflg[d2]=1;
for(d3=0; d3<6; d3++){
if(uflg[d3]==0){uflg[d3]=1;
for(d4=0; d4<6; d4++){
if(uflg[d4]==0){uflg[d4]=1;
for(d5=0; d5<6; d5++){
if(uflg[d5]==0){uflg[d5]=1;
td[pc][0]=d0; td[pc][1]=d1; td[pc][2]=d2;
td[pc][3]=d3; td[pc][4]=d4; td[pc][5]=d5;
pc++;
uflg[d5]=0;
}}
uflg[d4]=0;
}}
uflg[d3]=0;
}}
uflg[d2]=0;
}}
uflg[d1]=0;
}}
uflg[d0]=0;
}
}
/**/
void d26(short x, short y){
short d0, d1, d2, d3, d4, d5;
short t0, t1, t2, t3, t4, t5;

```

```

short c;
short s[6], cd[2][2];
cd[0][0]=0; cd[0][1]=1; cd[1][0]=1; cd[1][1]=0;
c=0;
for(d0=0; d0<2; d0++){
  for(d1=0; d1<2; d1++){
    for(d2=0; d2<2; d2++){
      for(d3=0; d3<2; d3++){
        for(d4=0; d4<2; d4++){
          for(d5=0; d5<2; d5++){c++;
            s[0]=cd[tv[x][0]][d0]; s[1]=cd[tv[x][1]][d1]; s[2]=cd[tv[x][2]][d2];
            s[3]=cd[tv[x][3]][d3]; s[4]=cd[tv[x][4]][d4]; s[5]=cd[tv[x][5]][d5];
            t0=td[y][0]; t1=td[y][1]; t2=td[y][2]; t3=td[y][3]; t4=td[y][4]; t5=td[y][5];
            tnm[x*pc+y][c]=((((s[t0]*2+s[t1])*2+s[t2])*2+s[t3])*2+s[t4])*2+s[t5]+1;
          }}
        }}
      }}
    }}
  }}
}
/**/
/* Transform each Basic Diagram of 2^6 into 'C&C' MC4^3 Solution */
void mksol 26(){
  int m;
  short n, nm[65];
  for(m=0; m<tcnt; m++){
    nm[1]=tnm[m][1]; nm[2]=tnm[m][63]; nm[3]=tnm[m][4]; nm[4]=tnm[m][62];
    nm[5]=tnm[m][60]; nm[6]=tnm[m][6]; nm[7]=tnm[m][57]; nm[8]=tnm[m][7];
    nm[9]=tnm[m][13]; nm[10]=tnm[m][51]; nm[11]=tnm[m][16]; nm[12]=tnm[m][50];
    nm[13]=tnm[m][56]; nm[14]=tnm[m][10]; nm[15]=tnm[m][53]; nm[16]=tnm[m][11];
    nm[17]=tnm[m][48]; nm[18]=tnm[m][18]; nm[19]=tnm[m][45]; nm[20]=tnm[m][19];
    nm[21]=tnm[m][21]; nm[22]=tnm[m][43]; nm[23]=tnm[m][24]; nm[24]=tnm[m][42];
    nm[25]=tnm[m][36]; nm[26]=tnm[m][30]; nm[27]=tnm[m][33]; nm[28]=tnm[m][31];
    nm[29]=tnm[m][25]; nm[30]=tnm[m][39]; nm[31]=tnm[m][28]; nm[32]=tnm[m][38];
    nm[33]=tnm[m][49]; nm[34]=tnm[m][15]; nm[35]=tnm[m][52]; nm[36]=tnm[m][14];
    nm[37]=tnm[m][12]; nm[38]=tnm[m][54]; nm[39]=tnm[m][9]; nm[40]=tnm[m][55];
    nm[41]=tnm[m][61]; nm[42]=tnm[m][3]; nm[43]=tnm[m][64]; nm[44]=tnm[m][2];
    nm[45]=tnm[m][8]; nm[46]=tnm[m][58]; nm[47]=tnm[m][5]; nm[48]=tnm[m][59];
    nm[49]=tnm[m][32]; nm[50]=tnm[m][34]; nm[51]=tnm[m][29]; nm[52]=tnm[m][35];
    nm[53]=tnm[m][37]; nm[54]=tnm[m][27]; nm[55]=tnm[m][40]; nm[56]=tnm[m][26];
    nm[57]=tnm[m][20]; nm[58]=tnm[m][46]; nm[59]=tnm[m][17]; nm[60]=tnm[m][47];
    nm[61]=tnm[m][41]; nm[62]=tnm[m][23]; nm[63]=tnm[m][44]; nm[64]=tnm[m][22];
    for(n=1; n<65; n++){tnm[m][n]=nm[n]; }
  }
}
/**/
/* Print the Answers of 'C&C' MC4^3 Two by two */
void pr2mc4(short x, short y){
  short m, n;
  short p[2][65];
  for(m=x-1; m<y; m=m+2){
    for(n=0; n<65; n++){p[0][n]=tnm[m][n]; p[1][n]=tnm[m+1][n]; }
    printf("%3d/%37d/\n", m+1, m+2);
    printf(" %2d-----%2d-----%2d-----%2d      ",
      p[0][1], p[0][2], p[0][3], p[0][4]);
    printf(" %2d-----%2d-----%2d-----%2d\n",
      p[1][1], p[1][2], p[1][3], p[1][4]);
    printf(" |%2d      %2d      %2d      |%2d      ",
      p[0][17], p[0][18], p[0][19], p[0][20]);
    printf(" |%2d      %2d      %2d      |%2d\n",
      p[1][17], p[1][18], p[1][19], p[1][20]);
    printf(" %2d %2d %2d %2d %2d %2d %2d %2d ",
      p[0][5], p[0][33], p[0][6], p[0][34], p[0][7], p[0][35], p[0][8], p[0][36]);
    printf(" %2d %2d %2d %2d %2d %2d %2d %2d\n",
      p[1][5], p[1][33], p[1][6], p[1][34], p[1][7], p[1][35], p[1][8], p[1][36]);
    printf(" |%2d %2d---%2d---%2d---%2d---%2d---%2d---%2d ",
      p[0][21], p[0][49], p[0][22], p[0][50], p[0][23], p[0][51], p[0][24], p[0][52]);
  }
}

```

```

printf("   |%2d %2d---%2d--%2d---%2d--%2d---%2d--%2d\n",
    p[1][21], p[1][49], p[1][22], p[1][50], p[1][23], p[1][51], p[1][24], p[1][52]);
printf(" %2d %2d | %2d %2d %2d %2d %2d %2d | ",
    p[0][9], p[0][37], p[0][10], p[0][38], p[0][11], p[0][39], p[0][12], p[0][40]);
printf(" %2d %2d | %2d %2d %2d %2d %2d %2d | \n",
    p[1][9], p[1][37], p[1][10], p[1][38], p[1][11], p[1][39], p[1][12], p[1][40]);
printf(" |%2d %2d %2d %2d %2d %2d |%2d %2d ",
    p[0][25], p[0][53], p[0][26], p[0][54], p[0][27], p[0][55], p[0][28], p[0][56]);
printf(" |%2d %2d %2d %2d %2d %2d |%2d %2d\n",
    p[1][25], p[1][53], p[1][26], p[1][54], p[1][27], p[1][55], p[1][28], p[1][56]);
printf(" %2d--%2d- |-%2d--%2d---%2d--%2d---%2d %2d | ",
    p[0][13], p[0][41], p[0][14], p[0][42], p[0][15], p[0][43], p[0][16], p[0][44]);
printf(" %2d--%2d- |-%2d--%2d---%2d--%2d---%2d %2d | \n",
    p[1][13], p[1][41], p[1][14], p[1][42], p[1][15], p[1][43], p[1][16], p[1][44]);
printf(" %2d %2d %2d %2d %2d %2d %2d %2d %2d %2d ",
    p[0][29], p[0][57], p[0][30], p[0][58], p[0][31], p[0][59], p[0][32], p[0][60]);
printf(" %2d %2d %2d %2d %2d %2d %2d %2d %2d %2d \n",
    p[1][29], p[1][57], p[1][30], p[1][58], p[1][31], p[1][59], p[1][32], p[1][60]);
printf(" %2d | %2d %2d %2d | ",
    p[0][45], p[0][46], p[0][47], p[0][48]);
printf(" %2d | %2d %2d %2d | \n",
    p[1][45], p[1][46], p[1][47], p[1][48]);
printf(" %2d-----%2d-----%2d-----%2d ",
    p[0][61], p[0][62], p[0][63], p[0][64]);
printf(" %2d-----%2d-----%2d-----%2d\n",
    p[1][61], p[1][62], p[1][63], p[1][64]);
}
}
/**/
/* Sort Data for the Smart List of Solutions according to n1,n2,n3 and n5 */
void srt265(void){
short m, n, f;
m=tcnt;
do{f=0; m--;
for(n=0; n<m; n++){
if(tnm[n][1]>tnm[n+1][1]){exc26(n); f=1;}
else if((tnm[n][1]==tnm[n+1][1])&&(tnm[n][2]<tnm[n+1][2])){exc26(n); f=1;}
else if((tnm[n][1]==tnm[n+1][1])&&(tnm[n][2]==tnm[n+1][2])){
if(tnm[n][3]>tnm[n+1][3]){exc26(n); f=1;}
else if((tnm[n][3]==tnm[n+1][3])&&(tnm[n][5]<tnm[n+1][5])){exc26(n); f=1;}
else if((tnm[n][3]==tnm[n+1][3])&&(tnm[n][5]==tnm[n+1][5])){
if(tnm[n][9]>tnm[n+1][9]){exc26(n); f=1;}}
}
}
}while(f>0);
}
/**/
/* Exchange solution pairs according to their own values */
void exc26(short x){
short p, sv;
for(p=1; p<65; p++){sv=tnm[x][p]; tnm[x][p]=tnm[x+1][p]; tnm[x+1][p]=sv;}
}
/**/

```

This program may give you quite a different impression from the other old ones. It is really short, shorter than any other old programs. It runs very fast, faster than any other programs I have ever written before for the same object.

You cannot find any old calculations already familiar to you, even any definitions with those many simultaneous equations at the first step, either. Nor you can find any kind of check procedures here.

Though it may look peculiar, it will surely give you a reasonable result.

Let me list out the result, but part of the 960 'standard' solutions of 'C&C' MC444.

** List of 960 Standard Solutions of 'Composite & Complete' MC444 **
 ** Composed by our newest Method using all View-Forms of EC02^6 **

1/1

```

1-----63----- 4-----62
|48      18      45      |19
60 49   6 15   57 52   7 14
|21 32---43---34---24---29---42---35
13 12 | 51 54   16 9   50 55 |
|36 37   30 27   33 40 |31 26
56--61-|-10-- 3--53--64---11 2 |
 25 20  39 46   28 17   38 47
      8 |   58      5      59 |
    41-----23-----44-----22
  
```

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```

1-----63----- 4-----62
|56      10      53      |11
60 41   6 23   57 44   7 22
|13 32---51---34---16---29---50---35
21 20 | 43 46   24 17   42 47 |
|36 37   30 27   33 40 |31 26
48--61-|-18-- 3--45--64---19 2 |
 25 12  39 54   28 9    38 55
      8 |   58      5      59 |
    49-----15-----52-----14
  
```

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```

1-----63----- 4-----62
|56      10      53      |11
60 25   6 39   57 28   7 38
|13 48---51---18---16---45---50---19
37 36 | 27 30   40 33   26 31 |
|20 21   46 43   17 24 |47 42
32--61-|-34-- 3--29--64---35 2 |
 41 12  23 54   44 9    22 55
      8 |   58      5      59 |
    49-----15-----52-----14
  
```

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```

1-----63----- 4-----62
|48      18      45      |19
56 49  10 15   53 52  11 14
|25 32---39---34---28---29---38---35
13 8 | 51 58   16 5   50 59 |
|36 41   30 23   33 44 |31 22
60--61-|- 6-- 3--57--64--- 7 2 |
 21 20  43 46   24 17   42 47
    12 |   54      9      55 |
    37-----27-----40-----26
  
```

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```

1-----63----- 4-----62
|32      34      29      |35
56 37  10 27   53 40  11 26
|41 60---23-- 6---44--57---22-- 7
25 20 | 39 46   28 17   38 47 |
| 8 13   58 51   5 16   59 50
48--61-|-18-- 3--45--64---19 2 |
 49 36  15 30   52 33   14 31
    12 |   54      9      55 |
    21-----43-----24-----42
  
```

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```

1-----63----- 4-----62
|32      34      29      |35
60 49   6 15   57 52   7 14
|37 48---27---18---40---45---26---19
13 12 | 51 54   16 9   50 55 |
|20 21   46 43   17 24 |47 42
56--61-|-10-- 3--53--64---11 2 |
 41 36  23 30   44 33   22 31
      8 |   58      5      59 |
    25-----39-----28-----38
  
```

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```

1-----63----- 4-----62
|32      34      29      |35
60 41   6 23   57 44   7 22
|37 56---27---10---40---53---26---11
21 20 | 43 46   24 17   42 47 |
|12 13   54 51   9 16   55 50
48--61-|-18-- 3--45--64---19 2 |
 49 36  15 30   52 33   14 31
      8 |   58      5      59 |
    25-----39-----28-----38
  
```

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```

1-----63----- 4-----62
|48      18      45      |19
60 25   6 39   57 28   7 38
|21 56---43---10---24---53---42---11
37 36 | 27 30   40 33   26 31 |
|12 13   54 51   9 16   55 50
32--61-|-34-- 3--29--64---35 2 |
 49 20  15 46   52 17   14 47
      8 |   58      5      59 |
    41-----23-----44-----22
  
```

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```

1-----63----- 4-----62
|32      34      29      |35
56 49  10 15   53 52  11 14
|41 48---23---18---44---45---22---19
13 8 | 51 58   16 5   50 59 |
|20 25   46 39   17 28 |47 38
60--61-|- 6-- 3--57--64--- 7 2 |
 37 36  27 30   40 33   26 31
    12 |   54      9      55 |
    21-----43-----24-----42
  
```

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```

1-----63----- 4-----62
|48      18      45      |19
56 21  10 43   53 24  11 42
|25 60---39-- 6---28--57---38-- 7
41 36 | 23 30   44 33   22 31 |
| 8 13   58 51   5 16   59 50
32--61-|-34-- 3--29--64---35 2 |
 49 20  15 46   52 17   14 47
    12 |   54      9      55 |
    37-----27-----40-----26
  
```

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1-----63----- 4-----62
 |32 34 29 |35
 48 41 18 23 45 44 19 22
 |49 56---15--10--52--53---14--11
 21 8 | 43 58 24 5 42 59 |
 |12 25 54 39 9 28 |55 38
 60--61-|- 6-- 3---57--64--- 7 2 |
 37 36 27 30 40 33 26 31
 20 | 46 17 47 |
 13-----51-----16-----50

13/13

1-----63----- 6-----60
 |48 18 43 |21
 62 49 4 15 57 54 7 12
 |19 32---45--34---24--27---42--37
 11 14 | 53 52 16 9 50 55 |
 |38 35 28 29 33 40 |31 26
 56--59-|-10-- 5---51--64---13 2 |
 25 22 39 44 30 17 36 47
 8 | 58 3 61 |
 41-----23-----46-----20

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1-----63----- 6-----60
 |56 10 51 |13
 62 41 4 23 57 46 7 20
 |11 32---53--34---16--27---50--37
 19 22 | 45 44 24 17 42 47 |
 |38 35 28 29 33 40 |31 26
 48--59-|-18-- 5---43--64---21 2 |
 25 14 39 52 30 9 36 55
 8 | 58 3 61 |
 49-----15-----54-----12

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1-----63----- 6-----60
 |56 10 51 |13
 62 25 4 39 57 30 7 36
 |11 48---53--18---16--43---50--21
 35 38 | 29 28 40 33 26 31 |
 |22 19 44 45 17 24 |47 42
 32--59-|-34-- 5---27--64---37 2 |
 41 14 23 52 46 9 20 55
 8 | 58 3 61 |
 49-----15-----54-----12

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1-----63----- 6-----60
 |48 18 43 |21
 56 49 10 15 51 54 13 12
 |25 32---39--34---30--27---36--37
 11 8 | 53 58 16 3 50 61 |
 |38 41 28 23 33 46 |31 20
 62--59-|- 4-- 5---57--64--- 7 2 |
 19 22 45 44 24 17 42 47
 14 | 52 9 55 |
 35-----29-----40-----26

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1-----63----- 4-----62
 |32 34 29 |35
 48 37 18 27 45 40 19 26
 |49 60---15-- 6---52--57---14-- 7
 25 12 | 39 54 28 9 38 55 |
 | 8 21 58 43 5 24 |59 42
 56--61-|-10-- 3---53--64---11 2 |
 41 36 23 30 44 33 22 31
 20 | 46 17 47 |
 13-----51-----16-----50

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1-----63----- 6-----60
 |32 34 27 |37
 62 49 4 15 57 54 7 12
 |35 48---29--18---40--43---26--21
 11 14 | 53 52 16 9 50 55 |
 |22 19 44 45 17 24 |47 42
 56--59-|-10-- 5---51--64---13 2 |
 41 38 23 28 46 33 20 31
 8 | 58 3 61 |
 25-----39-----30-----36

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1-----63----- 6-----60
 |32 34 27 |37
 62 41 4 23 57 46 7 20
 |35 56---29--10---40--51---26--13
 19 22 | 45 44 24 17 42 47 |
 |14 11 52 53 9 16 |55 50
 48--59-|-18-- 5---43--64---21 2 |
 49 38 15 28 54 33 12 31
 8 | 58 3 61 |
 25-----39-----30-----36

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1-----63----- 6-----60
 |48 18 43 |21
 62 25 4 39 57 30 7 36
 |19 56---45--10---24--51---42--13
 35 38 | 29 28 40 33 26 31 |
 |14 11 52 53 9 16 |55 50
 32--59-|-34-- 5---27--64---37 2 |
 49 22 15 44 54 17 12 47
 8 | 58 3 61 |
 41-----23-----46-----20

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1-----63----- 6-----60
 |32 34 27 |37
 56 49 10 15 51 54 13 12
 |41 48---23--18---46--43---20--21
 11 8 | 53 58 16 3 50 61 |
 |22 25 44 39 17 30 |47 36
 62--59-|- 4-- 5---57--64--- 7 2 |
 35 38 29 28 40 33 26 31
 14 | 52 9 55 |
 19-----45-----24-----42

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1-----63----- 6-----60
 |32 34 27 |37
 56 35 10 29 51 40 13 26
 |41 62---23-- 4---46--57---20-- 7
 25 22 | 39 44 30 17 36 47 |
 | 8 11 58 53 3 16 |61 50
 48--59-|-18-- 5---43--64---21 2 |
 49 38 15 28 54 33 12 31
 14 | 52 9 55 |
 19-----45-----24-----42

23/23

1-----63----- 6-----60
 |32 34 27 |37
 48 41 18 23 43 46 21 20
 |49 56---15--10---54--51---12--13
 19 8 | 45 58 24 3 42 61 |
 |14 25 52 39 9 30 |55 36
 62--59-|- 4-- 5---57--64--- 7 2 |
 35 38 29 28 40 33 26 31
 22 | 44 17 47 |
 11-----53-----16-----50

25/25

1-----63-----10-----56
 |48 18 39 |25
 62 49 4 15 53 58 11 8
 |19 32---45--34---28--23---38--41
 7 14 | 57 52 16 5 50 59 |
 |42 35 24 29 33 44 |31 22
 60--55-|- 6-- 9---51--64---13 2 |
 21 26 43 40 30 17 36 47
 12 | 54 3 61 |
 37-----27-----46-----20

27/27

1-----63-----10-----56
 |60 6 51 |13
 62 37 4 27 53 46 11 20
 | 7 32---57--34---16--23---50--41
 19 26 | 45 40 28 17 38 47 |
 |42 35 24 29 33 44 |31 22
 48--55-|-18-- 9---39--64---25 2 |
 21 14 43 52 30 5 36 59
 12 | 54 3 61 |
 49-----15-----58----- 8

29/29

1-----63-----10-----56
 |60 6 51 |13
 62 21 4 43 53 30 11 36
 | 7 48---57--18---16--39---50--25
 35 42 | 29 24 44 33 22 31 |
 |26 19 40 45 17 28 |47 38
 32--55-|-34-- 9---23--64---41 2 |
 37 14 27 52 46 5 20 59
 12 | 54 3 61 |
 49-----15-----58----- 8

22/22

1-----63----- 6-----60
 |48 18 43 |21
 56 19 10 45 51 24 13 42
 |25 62---39-- 4---30--57---36-- 7
 41 38 | 23 28 46 33 20 31 |
 | 8 11 58 53 3 16 |61 50
 32--59-|-34-- 5---27--64---37 2 |
 49 22 15 44 54 17 12 47
 14 | 52 9 55 |
 35-----29-----40-----26

24/24

1-----63----- 6-----60
 |32 34 27 |37
 48 35 18 29 43 40 21 26
 |49 62---15-- 4---54--57---12-- 7
 25 14 | 39 52 30 9 36 55 |
 | 8 19 58 45 3 24 |61 42
 56--59-|-10-- 5---51--64---13 2 |
 41 38 23 28 46 33 20 31
 22 | 44 17 47 |
 11-----53-----16-----50

26/26

1-----63-----10-----56
 |32 34 23 |41
 62 49 4 15 53 58 11 8
 |35 48---29--18---44--39---22--25
 7 14 | 57 52 16 5 50 59 |
 |26 19 40 45 17 28 |47 38
 60--55-|- 6-- 9---51--64---13 2 |
 37 42 27 24 46 33 20 31
 12 | 54 3 61 |
 21-----43-----30-----36

28/28

1-----63-----10-----56
 |32 34 23 |41
 62 37 4 27 53 46 11 20
 |35 60---29-- 6---44--51---22--13
 19 26 | 45 40 28 17 38 47 |
 |14 7 52 57 5 16 |59 50
 48--55-|-18-- 9---39--64---25 2 |
 49 42 15 24 58 33 8 31
 12 | 54 3 61 |
 21-----43-----30-----36

30/30

1-----63-----10-----56
 |48 18 39 |25
 62 21 4 43 53 30 11 36
 |19 60---45-- 6---28--51---38--13
 35 42 | 29 24 44 33 22 31 |
 |14 7 52 57 5 16 |59 50
 32--55-|-34-- 9---23--64---41 2 |
 49 26 15 40 58 17 8 47
 12 | 54 3 61 |
 37-----27-----46-----20

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1-----63-----10-----56
 |48 18 39 |25
 60 49 6 15 51 58 13 8
 |21 32---43---34---30---23---36---41
 7 12 | 57 54 16 3 50 61 |
 |42 37 24 27 33 46 |31 20
 62--55-|- 4-- 9--53--64---11 2 |
 19 26 45 40 28 17 38 47
 14 | 52 5 59 |
 35-----29-----44-----22

33/33

1-----63-----10-----56
 |32 34 23 |41
 60 35 6 29 51 44 13 22
 |37 62---27-- 4--46--53---20--11
 21 26 | 43 40 30 17 36 47 |
 |12 7 54 57 3 16 |61 50
 48--55-|-18-- 9--39--64---25 2 |
 49 42 15 24 58 33 8 31
 14 | 52 5 59 |
 19-----45-----28-----38

35/35

1-----63-----10-----56
 |32 34 23 |41
 48 37 18 27 39 46 25 20
 |49 60---15-- 6---58--51--- 8--13
 19 12 | 45 54 28 3 38 61 |
 |14 21 52 43 5 30 |59 36
 62--55-|- 4-- 9--53--64---11 2 |
 35 42 29 24 44 33 22 31
 26 | 40 17 47 |
 7-----57-----16-----50

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1-----63-----18-----48
 |56 10 39 |25
 62 41 4 23 45 58 19 8
 |11 32---53---34---28--15---38--49
 7 22 | 57 44 24 5 42 59 |
 |50 35 16 29 33 52 |31 14
 60--47-|- 6--17---43--64---21 2 |
 13 26 51 40 30 9 36 55
 20 | 46 3 61 |
 37-----27-----54-----12

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1-----63-----18-----48
 |60 6 43 |21
 62 37 4 27 45 54 19 12
 | 7 32---57--34---24--15---42--49
 11 26 | 53 40 28 9 38 55 |
 |50 35 16 29 33 52 |31 14
 56--47-|-10--17---39--64---25 2 |
 13 22 51 44 30 5 36 59
 20 | 46 3 61 |
 41-----23-----58----- 8

32/32

1-----63-----10-----56
 |32 34 23 |41
 60 49 6 15 51 58 13 8
 |37 48---27--18---46--39---20--25
 7 12 | 57 54 16 3 50 61 |
 |26 21 40 43 17 30 |47 36
 62--55-|- 4-- 9--53--64---11 2 |
 35 42 29 24 44 33 22 31
 14 | 52 5 59 |
 19-----45-----28-----38

34/34

1-----63-----10-----56
 |48 18 39 |25
 60 19 6 45 51 28 13 38
 |21 62---43-- 4--30--53---36--11
 37 42 | 27 24 46 33 20 31 |
 |12 7 54 57 3 16 |61 50
 32--55-|-34-- 9--23--64---41 2 |
 49 26 15 40 58 17 8 47
 14 | 52 5 59 |
 35-----29-----44-----22

36/36

1-----63-----10-----56
 |32 34 23 |41
 48 35 18 29 39 44 25 22
 |49 62---15-- 4---58--53--- 8--11
 21 14 | 43 52 30 5 36 59 |
 |12 19 54 45 3 28 |61 38
 60--55-|- 6-- 9--51--64---13 2 |
 37 42 27 24 46 33 20 31
 26 | 40 17 47 |
 7-----57-----16-----50

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1-----63-----18-----48
 |32 34 15 |49
 62 41 4 23 45 58 19 8
 |35 56---29--10---52--39---14--25
 7 22 | 57 44 24 5 42 59 |
 |26 11 40 53 9 28 |55 38
 60--47-|- 6--17---43--64---21 2 |
 37 50 27 16 54 33 12 31
 20 | 46 3 61 |
 13-----51-----30-----36

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1-----63-----18-----48
 |32 34 15 |49
 62 37 4 27 45 54 19 12
 |35 60---29-- 6---52--43---14--21
 11 26 | 53 40 28 9 38 55 |
 |22 7 44 57 5 24 |59 42
 56--47-|-10--17---39--64---25 2 |
 41 50 23 16 58 33 8 31
 20 | 46 3 61 |
 13-----51-----30-----36

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1-----63-----18-----48
 |60 6 43 |21
 62 13 4 51 45 30 19 36
 | 7 56---57--10---24--39---42--25
 35 50 | 29 16 52 33 14 31 |
 |26 11 40 53 9 28 |55 38
 32--47-|-34--17---15--64---49 2 |
 37 22 27 44 54 5 12 59
 20 | 46 3 61 |
 41-----23-----58-----8

43/43

1-----63-----18-----48
 |56 10 39 |25
 60 41 6 23 43 58 21 8
 |13 32---51--34---30--15---36--49
 7 20 | 57 46 24 3 42 61 |
 |50 37 16 27 33 54 |31 12
 62--47-|- 4--17---45--64---19 2 |
 11 26 53 40 28 9 38 55
 22 | 44 5 59 |
 35-----29-----52-----14

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1-----63-----18-----48
 |32 34 15 |49
 60 35 6 29 43 52 21 14
 |37 62---27-- 4---54--45---12--19
 13 26 | 51 40 30 9 36 55 |
 |20 7 46 57 3 24 |61 42
 56--47-|-10--17---39--64---25 2 |
 41 50 23 16 58 33 8 31
 22 | 44 5 59 |
 11-----53-----28-----38

47/47

1-----63-----18-----48
 |32 34 15 |49
 56 37 10 27 39 54 25 12
 |41 60---23-- 6---58--43--- 8--21
 11 20 | 53 46 28 3 38 61 |
 |22 13 44 51 5 30 |59 36
 62--47-|- 4--17---45--64---19 2 |
 35 50 29 16 52 33 14 31
 26 | 40 9 55 |
 7-----57-----24-----42

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1-----63-----34-----32
 |56 10 23 |41
 62 25 4 39 29 58 35 8
 |11 48---53--18---44--15---22--49
 7 38 | 57 28 40 5 26 59 |
 |50 19 16 45 17 52 |47 14
 60--31-|- 6--33---27--64---37 2 |
 13 42 51 24 46 9 20 55
 36 | 30 3 61 |
 21-----43-----54-----12

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1-----63-----18-----48
 |56 10 39 |25
 62 13 4 51 45 30 19 36
 |11 60---53-- 6---28--43---38--21
 35 50 | 29 16 52 33 14 31 |
 |22 7 44 57 5 24 |59 42
 32--47-|-34--17---15--64---49 2 |
 41 26 23 40 58 9 8 55
 20 | 46 3 61 |
 37-----27-----54-----12

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1-----63-----18-----48
 |32 34 15 |49
 60 41 6 23 43 58 21 8
 |37 56---27--10---54--39---12--25
 7 20 | 57 46 24 3 42 61 |
 |26 13 40 51 9 30 |55 36
 62--47-|- 4--17---45--64---19 2 |
 35 50 29 16 52 33 14 31
 22 | 44 5 59 |
 11-----53-----28-----38

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1-----63-----18-----48
 |56 10 39 |25
 60 11 6 53 43 28 21 38
 |13 62---51-- 4---30--45---36--19
 37 50 | 27 16 54 33 12 31 |
 |20 7 46 57 3 24 |61 42
 32--47-|-34--17---15--64---49 2 |
 41 26 23 40 58 9 8 55
 22 | 44 5 59 |
 35-----29-----52-----14

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1-----63-----18-----48
 |32 34 15 |49
 56 35 10 29 39 52 25 14
 |41 62---23-- 4---58--45--- 8--19
 13 22 | 51 44 30 5 36 59 |
 |20 11 46 53 3 28 |61 38
 60--47-|- 6--17---43--64---21 2 |
 37 50 27 16 54 33 12 31
 26 | 40 9 55 |
 7-----57-----24-----42

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1-----63-----34-----32
 |48 18 15 |49
 62 25 4 39 29 58 35 8
 |19 56---45--10---52--23---14--41
 7 38 | 57 28 40 5 26 59 |
 |42 11 24 53 9 44 |55 22
 60--31-|- 6--33---27--64---37 2 |
 21 50 43 16 54 17 12 47
 36 | 30 3 61 |
 13-----51-----46-----20

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1-----63-----34-----32
 |60 6 27 |37
 62 21 4 43 29 54 35 12
 | 7 48--57--18--40--15--26--49
 11 42 | 53 24 44 9 22 55 |
 |50 19 16 45 17 52 |47 14
 56--31-|-10--33--23--64--41 2 |
 13 38 51 28 46 5 20 59
 36 | 30 3 61 |
 25-----39-----58-----8

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1-----63-----34-----32
 |60 6 27 |37
 62 13 4 51 29 46 35 20
 | 7 56--57--10--40--23--26--41
 19 50 | 45 16 52 17 14 47 |
 |42 11 24 53 9 44 |55 22
 48--31-|-18--33--15--64--49 2 |
 21 38 43 28 54 5 12 59
 36 | 30 3 61 |
 25-----39-----58-----8

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1-----63-----34-----32
 |56 10 23 |41
 60 25 6 39 27 58 37 8
 |13 48--51--18--46--15--20--49
 7 36 | 57 30 40 3 26 61 |
 |50 21 16 43 17 54 |47 12
 62--31-|- 4--33--29--64--35 2 |
 11 42 53 24 44 9 22 55
 38 | 28 5 59 |
 19-----45-----52-----14

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1-----63-----34-----32
 |48 18 15 |49
 60 19 6 45 27 52 37 14
 |21 62--43-- 4--54--29--12--35
 13 42 | 51 24 46 9 20 55 |
 |36 7 30 57 3 40 |61 26
 56--31-|-10--33--23--64--41 2 |
 25 50 39 16 58 17 8 47
 38 | 28 5 59 |
 11-----53-----44-----22

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1-----63-----34-----32
 |48 18 15 |49
 56 21 10 43 23 54 41 12
 |25 60--39-- 6--58--27-- 8--37
 11 36 | 53 30 44 3 22 61 |
 |38 13 28 51 5 46 |59 20
 62--31-|- 4--33--29--64--35 2 |
 19 50 45 16 52 17 14 47
 42 | 24 9 55 |
 7-----57-----40-----26

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1-----63-----34-----32
 |48 18 15 |49
 62 21 4 43 29 54 35 12
 |19 60--45-- 6--52--27--14--37
 11 42 | 53 24 44 9 22 55 |
 |38 7 28 57 5 40 |59 26
 56--31-|-10--33--23--64--41 2 |
 25 50 39 16 58 17 8 47
 36 | 30 3 61 |
 13-----51-----46-----20

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1-----63-----34-----32
 |56 10 23 |41
 62 13 4 51 29 46 35 20
 |11 60--53-- 6--44--27--22--37
 19 50 | 45 16 52 17 14 47 |
 |38 7 28 57 5 40 |59 26
 48--31-|-18--33--15--64--49 2 |
 25 42 39 24 58 9 8 55
 36 | 30 3 61 |
 21-----43-----54-----12

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1-----63-----34-----32
 |48 18 15 |49
 60 25 6 39 27 58 37 8
 |21 56--43--10--54--23--12--41
 7 36 | 57 30 40 3 26 61 |
 |42 13 24 51 9 46 |55 20
 62--31-|- 4--33--29--64--35 2 |
 19 50 45 16 52 17 14 47
 38 | 28 5 59 |
 11-----53-----44-----22

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1-----63-----34-----32
 |56 10 23 |41
 60 11 6 53 27 44 37 22
 |13 62--51-- 4--46--29--20--35
 21 50 | 43 16 54 17 12 47 |
 |36 7 30 57 3 40 |61 26
 48--31-|-18--33--15--64--49 2 |
 25 42 39 24 58 9 8 55
 38 | 28 5 59 |
 19-----45-----52-----14

60/60

1-----63-----34-----32
 |48 18 15 |49
 56 19 10 45 23 52 41 14
 |25 62--39-- 4--58--29-- 8--35
 13 38 | 51 28 46 5 20 59 |
 |36 11 30 53 3 44 |61 22
 60--31-|- 6--33--27--64--37 2 |
 21 50 43 16 54 17 12 47
 42 | 24 9 55 |
 7-----57-----40-----26

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1-----56-----13-----60
 |32 41 20 |37
 48 35 25 22 36 47 21 26
 |49 62--- 8--11---61--50--12-- 7
 18 14 | 39 59 30 2 43 55 |
 |15 19 58 38 3 31 |54 42
 63--52-|-10-- 5---51--64--- 6 9 |
 34 45 23 28 46 33 27 24
 29 | 44 17 40 |
 4-----53-----16-----57

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1-----56-----13-----60
 |32 41 20 |37
 48 34 25 23 36 46 21 27
 |49 63--- 8--10---61--51--12-- 6
 19 15 | 38 58 31 3 42 54 |
 |14 18 59 39 2 30 |55 43
 62--52-|-11-- 5---50--64--- 7 9 |
 35 45 22 28 47 33 26 24
 29 | 44 17 40 |
 4-----53-----16-----57

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2-----64----- 3-----61
 |47 17 46 |20
 59 50 5 16 58 51 8 13
 |22 31---44--33---23--30---41--36
 14 11 | 52 53 15 10 49 56 |
 |35 38 29 28 34 39 |32 25
 55--62-|- 9-- 4---54--63---12 1 |
 26 19 40 45 27 18 37 48
 7 | 57 6 60 |
 42-----24-----43-----21

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2-----64----- 3-----61
 |31 33 30 |36
 59 50 5 16 58 51 8 13
 |38 47---28--17---39--46---25--20
 14 11 | 52 53 15 10 49 56 |
 |19 22 45 44 18 23 |48 41
 55--62-|- 9-- 4---54--63---12 1 |
 42 35 24 29 43 34 21 32
 7 | 57 6 60 |
 26-----40-----27-----37

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2-----55-----14-----59
 |31 42 19 |38
 47 36 26 21 35 48 22 25
 |50 61--- 7--12---62--49---11-- 8
 17 13 | 40 60 29 1 44 56 |
 |16 20 57 37 4 32 |53 41
 64--51-|- 9-- 6---52--63--- 5 10 |
 33 46 24 27 45 34 28 23
 30 | 43 18 39 |
 3-----54-----15-----58

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2-----55-----14-----59
 |31 42 19 |38
 47 33 26 24 35 45 22 28
 |50 64--- 7-- 9---62--52---11-- 5
 20 16 | 37 57 32 4 41 53 |
 |13 17 60 40 1 29 |56 44
 61--51-|-12-- 6---49--63--- 8 10 |
 36 46 21 27 48 34 25 23
 30 | 43 18 39 |
 3-----54-----15-----58

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3-----64----- 2-----61
 |46 17 47 |20
 58 51 5 16 59 50 8 13
 |23 30---44--33---22--31---41--36
 15 10 | 52 53 14 11 49 56 |
 |34 39 29 28 35 38 |32 25
 54--63-|- 9-- 4---55--62---12 1 |
 27 18 40 45 26 19 37 48
 6 | 57 7 60 |
 43-----24-----42-----21

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3-----64----- 2-----61
 |30 33 31 |36
 58 51 5 16 59 50 8 13
 |39 46---28--17---38--47---25--20
 15 10 | 52 53 14 11 49 56 |
 |18 23 45 44 19 22 |48 41
 54--63-|- 9-- 4---55--62---12 1 |
 43 34 24 29 42 35 21 32
 6 | 57 7 60 |
 27-----40-----26-----37

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3-----61-----36-----30
 |46 20 13 |51
 54 23 12 41 21 56 43 10
 |27 58---37-- 8---60--25--- 6--39
 9 34 | 55 32 42 1 24 63 |
 |40 15 26 49 7 48 |57 18
 64--29-|- 2--35---31--62---33 4 |
 17 52 47 14 50 19 16 45
 44 | 22 11 53 |
 5-----59-----38-----28

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3-----61-----36-----30
 |46 20 13 |51
 54 17 12 47 21 50 43 16
 |27 64---37-- 2---60--31--- 6--33
 15 40 | 49 26 48 7 18 57 |
 |34 9 32 55 1 42 |63 24
 58--29-|- 8--35---25--62---39 4 |
 23 52 41 14 56 19 10 45
 44 | 22 11 53 |
 5-----59-----38-----28


```

/**/
void prmt26(void){
    short d0, d1, d2, d3, d4, d5, n;
    short ufl g[6];
    for(n=0; n<6; n++){ufl g[n]=0; }
    for(d0=0; d0<6; d0++){
        ufl g[d0]=1;
        for(d1=0; d1<6; d1++){
            if(ufl g[d1]==0){ufl g[d1]=1;
                for(d2=0; d2<6; d2++){
                    if(ufl g[d2]==0){ufl g[d2]=1;
                        for(d3=0; d3<6; d3++){
                            if(ufl g[d3]==0){ufl g[d3]=1;
                                for(d4=0; d4<6; d4++){
                                    if(ufl g[d4]==0){ufl g[d4]=1;
                                        for(d5=0; d5<6; d5++){
                                            if(ufl g[d5]==0){ufl g[d5]=1;
                                                td[pc][0]=d0; td[pc][1]=d1; td[pc][2]=d2;
                                                td[pc][3]=d3; td[pc][4]=d4; td[pc][5]=d5;
                                                pc++;
                                                ufl g[d5]=0;
                                            }}
                                        ufl g[d4]=0;
                                    }}
                                ufl g[d3]=0;
                            }}
                        ufl g[d2]=0;
                    }}
                ufl g[d1]=0;
            }}
        ufl g[d0]=0;
    }
}
/**/
void d26(short x, short y){
    short d0, d1, d2, d3, d4, d5;
    short t0, t1, t2, t3, t4, t5;
    short c;
    short s[6], cd[2][2];
    cd[0][0]=0; cd[0][1]=1; cd[1][0]=1; cd[1][1]=0;
    c=0;
    for(d0=0; d0<2; d0++){
        for(d1=0; d1<2; d1++){
            for(d2=0; d2<2; d2++){
                for(d3=0; d3<2; d3++){
                    for(d4=0; d4<2; d4++){
                        for(d5=0; d5<2; d5++){c++;
                            s[0]=cd[tv[x][0]][d0]; s[1]=cd[tv[x][1]][d1]; s[2]=cd[tv[x][2]][d2];
                            s[3]=cd[tv[x][3]][d3]; s[4]=cd[tv[x][4]][d4]; s[5]=cd[tv[x][5]][d5];
                            t0=td[y][0]; t1=td[y][1]; t2=td[y][2]; t3=td[y][3]; t4=td[y][4]; t5=td[y][5];
                            tnm[x*pc+y][c]=((((s[t0]*2+s[t1])*2+s[t2])*2+s[t3])*2+s[t4])*2+s[t5]+1;
                        }}
                    }}
                }}
            }}
        }}
    }
}
/**/
/* Transform the Answers and Record */
void trnsfcc(void){
    short m, n;
    short nm[65];
    for(m=0; m<tcnt; m++){
        nm[0]=m+1;
        nm[1]=tnm[m][1]; nm[2]=tnm[m][63]; nm[3]=tnm[m][4]; nm[4]=tnm[m][62];
        nm[5]=tnm[m][36]; nm[6]=tnm[m][30]; nm[7]=tnm[m][33]; nm[8]=tnm[m][31];
        nm[9]=tnm[m][60]; nm[10]=tnm[m][6]; nm[11]=tnm[m][57]; nm[12]=tnm[m][7];
        nm[13]=tnm[m][25]; nm[14]=tnm[m][39]; nm[15]=tnm[m][28]; nm[16]=tnm[m][38];
    }
}

```

```

nm[17]=tnm[m][13]; nm[18]=tnm[m][51]; nm[19]=tnm[m][16]; nm[20]=tnm[m][50];
nm[21]=tnm[m][48]; nm[22]=tnm[m][18]; nm[23]=tnm[m][45]; nm[24]=tnm[m][19];
nm[25]=tnm[m][56]; nm[26]=tnm[m][10]; nm[27]=tnm[m][53]; nm[28]=tnm[m][11];
nm[29]=tnm[m][21]; nm[30]=tnm[m][43]; nm[31]=tnm[m][24]; nm[32]=tnm[m][42];
nm[33]=tnm[m][29]; nm[34]=tnm[m][35]; nm[35]=tnm[m][32]; nm[36]=tnm[m][34];
nm[37]=tnm[m][64]; nm[38]=tnm[m][2]; nm[39]=tnm[m][61]; nm[40]=tnm[m][3];
nm[41]=tnm[m][40]; nm[42]=tnm[m][26]; nm[43]=tnm[m][37]; nm[44]=tnm[m][27];
nm[45]=tnm[m][5]; nm[46]=tnm[m][59]; nm[47]=tnm[m][8]; nm[48]=tnm[m][58];
nm[49]=tnm[m][17]; nm[50]=tnm[m][47]; nm[51]=tnm[m][20]; nm[52]=tnm[m][46];
nm[53]=tnm[m][52]; nm[54]=tnm[m][14]; nm[55]=tnm[m][49]; nm[56]=tnm[m][15];
nm[57]=tnm[m][44]; nm[58]=tnm[m][22]; nm[59]=tnm[m][41]; nm[60]=tnm[m][23];
nm[61]=tnm[m][9]; nm[62]=tnm[m][55]; nm[63]=tnm[m][12]; nm[64]=tnm[m][54];
for(n=0;n<65;n++){tnm[m][n]=nm[n];}
}
}
/**/
/* Sort the Solutions according to n1,n2,n4,n6 and n8 */
void srt26(void d){
short m, n, f;
long d1, d2, d3, d4;
m=tcnt;
do{f=0; m--;
for(n=0;n<m;n++){
if(tnm[n][1]>tnm[n+1][1]){exc26(n); f=1;}
d1=tnm[n][2]*65+tnm[n][4]; d2=tnm[n+1][2]*65+tnm[n+1][4];
if((tnm[n][1]==tnm[n+1][1])&&(d1<d2)){exc26(n); f=1;}
d3=tnm[n][9]*65+tnm[n][25]; d4=tnm[n+1][9]*65+tnm[n+1][25];
if((tnm[n][1]==tnm[n+1][1])&&(d1==d2)&&(d3<d4)){exc26(n); f=1;}
if((tnm[n][1]==tnm[n+1][1])&&(d1==d2)&&(d3==d4)&&(tnm[n][49]>tnm[n+1][49])){
exc26(n); f=1;}
}
}while(f>0);
}
/**/
/* Exchange solution pairs according to their own values */
void exc26(short x){
short p, sv;
for(p=0;p<65;p++){sv=tnm[x][p]; tnm[x][p]=tnm[x+1][p]; tnm[x+1][p]=sv;}
}
/**/
/* Print 3 Pieces of 'C&C' MS88 */
void prms8(short x, short y){
short l, l8, m, n, p;
for(m=x-1;m<y;m=m+3){
for(n=0;n<3;n++){
if(m+n<y){printf("%24d/", m+n+1);}
if(n<2){printf(" ");}
}
printf("\n");
for(l=0;l<8;l++){l8=l*8;
for(n=0;n<3;n++){
if(m+n<y){printf(" ");
for(p=1;p<9;p++){printf("%3d", tnm[m+n][l8+p]);}
if(n<2){printf(" ");}
}
}
printf("\n");
}
}
}
}
/**/

```

```

** Multiple type of 'Composite & Complete' Magic Squares of Order 8 **
** Composed by New Method Using All Possible View-Forms of Developed **
** Extra-Cubic Objects of Order 2: List of 5760 Standard Solutions **

```

1/	2/	3/
1 63 4 62 36 30 33 31	1 63 4 62 20 46 17 47	1 63 4 62 36 30 33 31
60 6 57 7 25 39 28 38	60 6 57 7 41 23 44 22	60 6 57 7 25 39 28 38
13 51 16 50 48 18 45 19	13 51 16 50 32 34 29 35	21 43 24 42 56 10 53 11
56 10 53 11 21 43 24 42	56 10 53 11 37 27 40 26	48 18 45 19 13 51 16 50
29 35 32 34 64 2 61 3	45 19 48 18 64 2 61 3	29 35 32 34 64 2 61 3
40 26 37 27 5 59 8 58	24 42 21 43 5 59 8 58	40 26 37 27 5 59 8 58
17 47 20 46 52 14 49 15	33 31 36 30 52 14 49 15	9 55 12 54 44 22 41 23
44 22 41 23 9 55 12 54	28 38 25 39 9 55 12 54	52 14 49 15 17 47 20 46
4/	5/	6/
1 63 4 62 12 54 9 55	1 63 4 62 20 46 17 47	1 63 4 62 12 54 9 55
60 6 57 7 49 15 52 14	60 6 57 7 41 23 44 22	60 6 57 7 49 15 52 14
21 43 24 42 32 34 29 35	37 27 40 26 56 10 53 11	37 27 40 26 48 18 45 19
48 18 45 19 37 27 40 26	32 34 29 35 13 51 16 50	32 34 29 35 21 43 24 42
53 11 56 10 64 2 61 3	45 19 48 18 64 2 61 3	53 11 56 10 64 2 61 3
16 50 13 51 5 59 8 58	24 42 21 43 5 59 8 58	16 50 13 51 5 59 8 58
33 31 36 30 44 22 41 23	9 55 12 54 28 38 25 39	17 47 20 46 28 38 25 39
28 38 25 39 17 47 20 46	52 14 49 15 33 31 36 30	44 22 41 23 33 31 36 30
7/	8/	9/
1 63 4 62 36 30 33 31	1 63 4 62 20 46 17 47	1 63 4 62 36 30 33 31
56 10 53 11 21 43 24 42	56 10 53 11 37 27 40 26	56 10 53 11 21 43 24 42
13 51 16 50 48 18 45 19	13 51 16 50 32 34 29 35	25 39 28 38 60 6 57 7
60 6 57 7 25 39 28 38	60 6 57 7 41 23 44 22	48 18 45 19 13 51 16 50
29 35 32 34 64 2 61 3	45 19 48 18 64 2 61 3	29 35 32 34 64 2 61 3
44 22 41 23 9 55 12 54	28 38 25 39 9 55 12 54	44 22 41 23 9 55 12 54
17 47 20 46 52 14 49 15	33 31 36 30 52 14 49 15	5 59 8 58 40 26 37 27
40 26 37 27 5 59 8 58	24 42 21 43 5 59 8 58	52 14 49 15 17 47 20 46
10/	11/	12/
1 63 4 62 8 58 5 59	1 63 4 62 20 46 17 47	1 63 4 62 8 58 5 59
56 10 53 11 49 15 52 14	56 10 53 11 37 27 40 26	56 10 53 11 49 15 52 14
25 39 28 38 32 34 29 35	41 23 44 22 60 6 57 7	41 23 44 22 48 18 45 19
48 18 45 19 41 23 44 22	32 34 29 35 13 51 16 50	32 34 29 35 25 39 28 38
57 7 60 6 64 2 61 3	45 19 48 18 64 2 61 3	57 7 60 6 64 2 61 3
16 50 13 51 9 55 12 54	28 38 25 39 9 55 12 54	16 50 13 51 9 55 12 54
33 31 36 30 40 26 37 27	5 59 8 58 24 42 21 43	17 47 20 46 24 42 21 43
24 42 21 43 17 47 20 46	52 14 49 15 33 31 36 30	40 26 37 27 33 31 36 30
13/	14/	15/
1 63 4 62 36 30 33 31	1 63 4 62 12 54 9 55	1 63 4 62 36 30 33 31
48 18 45 19 13 51 16 50	48 18 45 19 37 27 40 26	48 18 45 19 13 51 16 50
21 43 24 42 56 10 53 11	21 43 24 42 32 34 29 35	25 39 28 38 60 6 57 7
60 6 57 7 25 39 28 38	60 6 57 7 49 15 52 14	56 10 53 11 21 43 24 42
29 35 32 34 64 2 61 3	53 11 56 10 64 2 61 3	29 35 32 34 64 2 61 3
52 14 49 15 17 47 20 46	28 38 25 39 17 47 20 46	52 14 49 15 17 47 20 46
9 55 12 54 44 22 41 23	33 31 36 30 44 22 41 23	5 59 8 58 40 26 37 27
40 26 37 27 5 59 8 58	16 50 13 51 5 59 8 58	44 22 41 23 9 55 12 54
16/	17/	18/
1 63 4 62 8 58 5 59	1 63 4 62 12 54 9 55	1 63 4 62 8 58 5 59
48 18 45 19 41 23 44 22	48 18 45 19 37 27 40 26	48 18 45 19 41 23 44 22
25 39 28 38 32 34 29 35	49 15 52 14 60 6 57 7	49 15 52 14 56 10 53 11
56 10 53 11 49 15 52 14	32 34 29 35 21 43 24 42	32 34 29 35 25 39 28 38
57 7 60 6 64 2 61 3	53 11 56 10 64 2 61 3	57 7 60 6 64 2 61 3
24 42 21 43 17 47 20 46	28 38 25 39 17 47 20 46	24 42 21 43 17 47 20 46
33 31 36 30 40 26 37 27	5 59 8 58 16 50 13 51	9 55 12 54 16 50 13 51
16 50 13 51 9 55 12 54	44 22 41 23 33 31 36 30	40 26 37 27 33 31 36 30

19/	20/	21/
1 63 4 62 20 46 17 47	1 63 4 62 12 54 9 55	1 63 4 62 20 46 17 47
32 34 29 35 13 51 16 50	32 34 29 35 21 43 24 42	32 34 29 35 13 51 16 50
37 27 40 26 56 10 53 11	37 27 40 26 48 18 45 19	41 23 44 22 60 6 57 7
60 6 57 7 41 23 44 22	60 6 57 7 49 15 52 14	56 10 53 11 37 27 40 26
45 19 48 18 64 2 61 3	53 11 56 10 64 2 61 3	45 19 48 18 64 2 61 3
52 14 49 15 33 31 36 30	44 22 41 23 33 31 36 30	52 14 49 15 33 31 36 30
9 55 12 54 28 38 25 39	17 47 20 46 28 38 25 39	5 59 8 58 24 42 21 43
24 42 21 43 5 59 8 58	16 50 13 51 5 59 8 58	28 38 25 39 9 55 12 54
22/	23/	24/
1 63 4 62 8 58 5 59	1 63 4 62 12 54 9 55	1 63 4 62 8 58 5 59
32 34 29 35 25 39 28 38	32 34 29 35 21 43 24 42	32 34 29 35 25 39 28 38
41 23 44 22 48 18 45 19	49 15 52 14 60 6 57 7	49 15 52 14 56 10 53 11
56 10 53 11 49 15 52 14	48 18 45 19 37 27 40 26	48 18 45 19 41 23 44 22
57 7 60 6 64 2 61 3	53 11 56 10 64 2 61 3	57 7 60 6 64 2 61 3
40 26 37 27 33 31 36 30	44 22 41 23 33 31 36 30	40 26 37 27 33 31 36 30
17 47 20 46 24 42 21 43	5 59 8 58 16 50 13 51	9 55 12 54 16 50 13 51
16 50 13 51 9 55 12 54	28 38 25 39 17 47 20 46	24 42 21 43 17 47 20 46
25/	26/	27/
1 63 6 60 38 28 33 31	1 63 6 60 22 44 17 47	1 63 6 60 38 28 33 31
62 4 57 7 25 39 30 36	62 4 57 7 41 23 46 20	62 4 57 7 25 39 30 36
11 53 16 50 48 18 43 21	11 53 16 50 32 34 27 37	19 45 24 42 56 10 51 13
56 10 51 13 19 45 24 42	56 10 51 13 35 29 40 26	48 18 43 21 11 53 16 50
27 37 32 34 64 2 59 5	43 21 48 18 64 2 59 5	27 37 32 34 64 2 59 5
40 26 35 29 3 61 8 58	24 42 19 45 3 61 8 58	40 26 35 29 3 61 8 58
17 47 22 44 54 12 49 15	33 31 38 28 54 12 49 15	9 55 14 52 46 20 41 23
46 20 41 23 9 55 14 52	30 36 25 39 9 55 14 52	54 12 49 15 17 47 22 44
28/	29/	30/
1 63 6 60 14 52 9 55	1 63 6 60 22 44 17 47	1 63 6 60 14 52 9 55
62 4 57 7 49 15 54 12	62 4 57 7 41 23 46 20	62 4 57 7 49 15 54 12
19 45 24 42 32 34 27 37	35 29 40 26 56 10 51 13	35 29 40 26 48 18 43 21
48 18 43 21 35 29 40 26	32 34 27 37 11 53 16 50	32 34 27 37 19 45 24 42
51 13 56 10 64 2 59 5	43 21 48 18 64 2 59 5	51 13 56 10 64 2 59 5
16 50 11 53 3 61 8 58	24 42 19 45 3 61 8 58	16 50 11 53 3 61 8 58
33 31 38 28 46 20 41 23	9 55 14 52 30 36 25 39	17 47 22 44 30 36 25 39
30 36 25 39 17 47 22 44	54 12 49 15 33 31 38 28	46 20 41 23 33 31 38 28
31/	32/	33/
1 63 6 60 38 28 33 31	1 63 6 60 22 44 17 47	1 63 6 60 38 28 33 31
56 10 51 13 19 45 24 42	56 10 51 13 35 29 40 26	56 10 51 13 19 45 24 42
11 53 16 50 48 18 43 21	11 53 16 50 32 34 27 37	25 39 30 36 62 4 57 7
62 4 57 7 25 39 30 36	62 4 57 7 41 23 46 20	48 18 43 21 11 53 16 50
27 37 32 34 64 2 59 5	43 21 48 18 64 2 59 5	27 37 32 34 64 2 59 5
46 20 41 23 9 55 14 52	30 36 25 39 9 55 14 52	46 20 41 23 9 55 14 52
17 47 22 44 54 12 49 15	33 31 38 28 54 12 49 15	3 61 8 58 40 26 35 29
40 26 35 29 3 61 8 58	24 42 19 45 3 61 8 58	54 12 49 15 17 47 22 44
34/	35/	36/
1 63 6 60 8 58 3 61	1 63 6 60 22 44 17 47	1 63 6 60 8 58 3 61
56 10 51 13 49 15 54 12	56 10 51 13 35 29 40 26	56 10 51 13 49 15 54 12
25 39 30 36 32 34 27 37	41 23 46 20 62 4 57 7	41 23 46 20 48 18 43 21
48 18 43 21 41 23 46 20	32 34 27 37 11 53 16 50	32 34 27 37 25 39 30 36
57 7 62 4 64 2 59 5	43 21 48 18 64 2 59 5	57 7 62 4 64 2 59 5
16 50 11 53 9 55 14 52	30 36 25 39 9 55 14 52	16 50 11 53 9 55 14 52
33 31 38 28 40 26 35 29	3 61 8 58 24 42 19 45	17 47 22 44 24 42 19 45
24 42 19 45 17 47 22 44	54 12 49 15 33 31 38 28	40 26 35 29 33 31 38 28

37/		38/		39/
1 63 6 60 38 28 33 31	1 63 6 60 14 52 9 55	1 63 6 60 38 28 33 31		
48 18 43 21 11 53 16 50	48 18 43 21 35 29 40 26	48 18 43 21 11 53 16 50		
19 45 24 42 56 10 51 13	19 45 24 42 32 34 27 37	25 39 30 36 62 4 57 7		
62 4 57 7 25 39 30 36	62 4 57 7 49 15 54 12	56 10 51 13 19 45 24 42		
27 37 32 34 64 2 59 5	51 13 56 10 64 2 59 5	27 37 32 34 64 2 59 5		
54 12 49 15 17 47 22 44	30 36 25 39 17 47 22 44	54 12 49 15 17 47 22 44		
9 55 14 52 46 20 41 23	33 31 38 28 46 20 41 23	3 61 8 58 40 26 35 29		
40 26 35 29 3 61 8 58	16 50 11 53 3 61 8 58	46 20 41 23 9 55 14 52		
40/		41/		42/
1 63 6 60 8 58 3 61	1 63 6 60 14 52 9 55	1 63 6 60 8 58 3 61		
48 18 43 21 41 23 46 20	48 18 43 21 35 29 40 26	48 18 43 21 41 23 46 20		
25 39 30 36 32 34 27 37	49 15 54 12 62 4 57 7	49 15 54 12 56 10 51 13		
56 10 51 13 49 15 54 12	32 34 27 37 19 45 24 42	32 34 27 37 25 39 30 36		
57 7 62 4 64 2 59 5	51 13 56 10 64 2 59 5	57 7 62 4 64 2 59 5		
24 42 19 45 17 47 22 44	30 36 25 39 17 47 22 44	24 42 19 45 17 47 22 44		
33 31 38 28 40 26 35 29	3 61 8 58 16 50 11 53	9 55 14 52 16 50 11 53		
16 50 11 53 9 55 14 52	46 20 41 23 33 31 38 28	40 26 35 29 33 31 38 28		
43/		44/		45/
1 63 6 60 22 44 17 47	1 63 6 60 14 52 9 55	1 63 6 60 22 44 17 47		
32 34 27 37 11 53 16 50	32 34 27 37 19 45 24 42	32 34 27 37 11 53 16 50		
35 29 40 26 56 10 51 13	35 29 40 26 48 18 43 21	41 23 46 20 62 4 57 7		
62 4 57 7 41 23 46 20	62 4 57 7 49 15 54 12	56 10 51 13 35 29 40 26		
43 21 48 18 64 2 59 5	51 13 56 10 64 2 59 5	43 21 48 18 64 2 59 5		
54 12 49 15 33 31 38 28	46 20 41 23 33 31 38 28	54 12 49 15 33 31 38 28		
9 55 14 52 30 36 25 39	17 47 22 44 30 36 25 39	3 61 8 58 24 42 19 45		
24 42 19 45 3 61 8 58	16 50 11 53 3 61 8 58	30 36 25 39 9 55 14 52		
46/		47/		48/
1 63 6 60 8 58 3 61	1 63 6 60 14 52 9 55	1 63 6 60 8 58 3 61		
32 34 27 37 25 39 30 36	32 34 27 37 19 45 24 42	32 34 27 37 25 39 30 36		
41 23 46 20 48 18 43 21	49 15 54 12 62 4 57 7	49 15 54 12 56 10 51 13		
56 10 51 13 49 15 54 12	48 18 43 21 35 29 40 26	48 18 43 21 41 23 46 20		
57 7 62 4 64 2 59 5	51 13 56 10 64 2 59 5	57 7 62 4 64 2 59 5		
40 26 35 29 33 31 38 28	46 20 41 23 33 31 38 28	40 26 35 29 33 31 38 28		
17 47 22 44 24 42 19 45	3 61 8 58 16 50 11 53	9 55 14 52 16 50 11 53		
16 50 11 53 9 55 14 52	30 36 25 39 17 47 22 44	24 42 19 45 17 47 22 44		
49/		50/		51/
1 63 10 56 42 24 33 31	1 63 10 56 26 40 17 47	1 63 10 56 42 24 33 31		
62 4 53 11 21 43 30 36	62 4 53 11 37 27 46 20	62 4 53 11 21 43 30 36		
7 57 16 50 48 18 39 25	7 57 16 50 32 34 23 41	19 45 28 38 60 6 51 13		
60 6 51 13 19 45 28 38	60 6 51 13 35 29 44 22	48 18 39 25 7 57 16 50		
23 41 32 34 64 2 55 9	39 25 48 18 64 2 55 9	23 41 32 34 64 2 55 9		
44 22 35 29 3 61 12 54	28 38 19 45 3 61 12 54	44 22 35 29 3 61 12 54		
17 47 26 40 58 8 49 15	33 31 42 24 58 8 49 15	5 59 14 52 46 20 37 27		
46 20 37 27 5 59 14 52	30 36 21 43 5 59 14 52	58 8 49 15 17 47 26 40		
52/		53/		54/
1 63 10 56 14 52 5 59	1 63 10 56 26 40 17 47	1 63 10 56 14 52 5 59		
62 4 53 11 49 15 58 8	62 4 53 11 37 27 46 20	62 4 53 11 49 15 58 8		
19 45 28 38 32 34 23 41	35 29 44 22 60 6 51 13	35 29 44 22 48 18 39 25		
48 18 39 25 35 29 44 22	32 34 23 41 7 57 16 50	32 34 23 41 19 45 28 38		
51 13 60 6 64 2 55 9	39 25 48 18 64 2 55 9	51 13 60 6 64 2 55 9		
16 50 7 57 3 61 12 54	28 38 19 45 3 61 12 54	16 50 7 57 3 61 12 54		
33 31 42 24 46 20 37 27	5 59 14 52 30 36 21 43	17 47 26 40 30 36 21 43		
30 36 21 43 17 47 26 40	58 8 49 15 33 31 42 24	46 20 37 27 33 31 42 24		

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1 63 10 56 42 24 33 31 1 63 10 56 26 40 17 47 1 63 10 56 42 24 33 31
60 6 51 13 19 45 28 38 60 6 51 13 35 29 44 22 60 6 51 13 19 45 28 38
7 57 16 50 48 18 39 25 7 57 16 50 32 34 23 41 21 43 30 36 62 4 53 11
62 4 53 11 21 43 30 36 62 4 53 11 37 27 46 20 48 18 39 25 7 57 16 50
23 41 32 34 64 2 55 9 39 25 48 18 64 2 55 9 23 41 32 34 64 2 55 9
46 20 37 27 5 59 14 52 30 36 21 43 5 59 14 52 46 20 37 27 5 59 14 52
17 47 26 40 58 8 49 15 33 31 42 24 58 8 49 15 3 61 12 54 44 22 35 29
44 22 35 29 3 61 12 54 28 38 19 45 3 61 12 54 58 8 49 15 17 47 26 40

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1 63 10 56 12 54 3 61 1 63 10 56 26 40 17 47 1 63 10 56 12 54 3 61
60 6 51 13 49 15 58 8 60 6 51 13 35 29 44 22 60 6 51 13 49 15 58 8
21 43 30 36 32 34 23 41 37 27 46 20 62 4 53 11 37 27 46 20 48 18 39 25
48 18 39 25 37 27 46 20 32 34 23 41 7 57 16 50 32 34 23 41 21 43 30 36
53 11 62 4 64 2 55 9 39 25 48 18 64 2 55 9 53 11 62 4 64 2 55 9
16 50 7 57 5 59 14 52 30 36 21 43 5 59 14 52 16 50 7 57 5 59 14 52
33 31 42 24 44 22 35 29 3 61 12 54 28 38 19 45 17 47 26 40 28 38 19 45
28 38 19 45 17 47 26 40 58 8 49 15 33 31 42 24 44 22 35 29 33 31 42 24

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1 48 25 56 26 55 2 47 1 48 25 56 27 54 3 46 1 48 25 56 26 55 2 47
32 49 8 41 7 42 31 50 32 49 8 41 6 43 30 51 32 49 8 41 7 42 31 50
35 14 59 22 60 21 36 13 37 12 61 20 63 18 39 10 37 12 61 20 62 19 38 11
62 19 38 11 37 12 61 20 60 21 36 13 34 15 58 23 60 21 36 13 35 14 59 22
39 10 63 18 64 17 40 9 38 11 62 19 64 17 40 9 39 10 63 18 64 17 40 9
58 23 34 15 33 16 57 24 59 22 35 14 33 16 57 24 58 23 34 15 33 16 57 24
5 44 29 52 30 51 6 43 2 47 26 55 28 53 4 45 3 46 27 54 28 53 4 45
28 53 4 45 3 46 27 54 31 50 7 42 5 44 29 52 30 51 6 43 5 44 29 52

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2 64 3 61 35 29 34 32 2 64 3 61 19 45 18 48 2 64 3 61 35 29 34 32
59 5 58 8 26 40 27 37 59 5 58 8 42 24 43 21 59 5 58 8 26 40 27 37
14 52 15 49 47 17 46 20 14 52 15 49 31 33 30 36 22 44 23 41 55 9 54 12
55 9 54 12 22 44 23 41 55 9 54 12 38 28 39 25 47 17 46 20 14 52 15 49
30 36 31 33 63 1 62 4 46 20 47 17 63 1 62 4 30 36 31 33 63 1 62 4
39 25 38 28 6 60 7 57 23 41 22 44 6 60 7 57 39 25 38 28 6 60 7 57
18 48 19 45 51 13 50 16 34 32 35 29 51 13 50 16 10 56 11 53 43 21 42 24
43 21 42 24 10 56 11 53 27 37 26 40 10 56 11 53 51 13 50 16 18 48 19 45

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2 47 26 55 25 56 1 48 2 47 26 55 28 53 4 45 2 47 26 55 25 56 1 48
31 50 7 42 8 41 32 49 31 50 7 42 5 44 29 52 31 50 7 42 8 41 32 49
36 13 60 21 59 22 35 14 38 11 62 19 64 17 40 9 38 11 62 19 61 20 37 12
61 20 37 12 38 11 62 19 59 22 35 14 33 16 57 24 59 22 35 14 36 13 60 21
40 9 64 17 63 18 39 10 37 12 61 20 63 18 39 10 40 9 64 17 63 18 39 10
57 24 33 16 34 15 58 23 60 21 36 13 34 15 58 23 57 24 33 16 34 15 58 23
6 43 30 51 29 52 5 44 1 48 25 56 27 54 3 46 4 45 28 53 27 54 3 46
27 54 3 46 4 45 28 53 32 49 8 41 6 43 30 51 29 52 5 44 6 43 30 51

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3 64 2 61 34 29 35 32 3 64 2 61 18 45 19 48 3 64 2 61 34 29 35 32
58 5 59 8 27 40 26 37 58 5 59 8 43 24 42 21 58 5 59 8 27 40 26 37
15 52 14 49 46 17 47 20 15 52 14 49 30 33 31 36 23 44 22 41 54 9 55 12
54 9 55 12 23 44 22 41 54 9 55 12 39 28 38 25 46 17 47 20 15 52 14 49
31 36 30 33 62 1 63 4 47 20 46 17 62 1 63 4 31 36 30 33 62 1 63 4
38 25 39 28 7 60 6 57 22 41 23 44 7 60 6 57 38 25 39 28 7 60 6 57
19 48 18 45 50 13 51 16 35 32 34 29 50 13 51 16 11 56 10 53 42 21 43 24
42 21 43 24 11 56 10 53 26 37 27 40 11 56 10 53 50 13 51 16 19 48 18 45


```

/** Make the Extra-Cubic Magic Objects of Order 2^6 and **/
/** Transform into '3-Type Simul taneous' Magic Squares 8^2 **/
/** 'Composi te', Sel f-Compl ementary and Pan-Di agonal Type **/
/** 'NewMS8Sml.c' by Kanji Setsuda **/
/** on Sep. 28, 2005; Mar. 29, 2006 **/
/** Working on MacOSX and Xcode 2.1 **/
/**/
#include <stdio.h>
/**/
/* Vari ables */
long int tcnt;
short vc, pc, cnt;
short tv[65][6];
short td[721][6];
int tnm[46081][65];
short nm[65], uflg[65];
/**/
void mkfv26(void), prmt26(void);
void d26(short x, short y);
void mksol26(void);
void srt26(void), exc26(short x);
void prms8(short x, short y);
void prms8d2i (short x, short y);
/**/
/* Mai n Program */
int main(){
    int mm;
    short m, n;
    printf("\n** Composi tion of Three-Type Simul taneous Magic Squares **\n");
    printf("** of Order 8^2 by our Newest Method Using All Possi ble **\n");
    printf("** Vi ew-Forms of Devel oped Extra-Cubi c Objects of Order 2 **\n");
    vc=0; mkfv26();
    pc=0; prmt26();
    tcnt=vc*pc;
    for(m=0; m<vc; m++){for(n=0; n<pc; n++){d26(m, n);}}
    cnt=0;
    for(mm=0; mm<tcnt; mm++){
        if((tnm[mm][1]<tnm[mm][57])&&(tnm[mm][1]<tnm[mm][8])&&(tnm[mm][1]<tnm[mm][64])){
            if(tnm[mm][63]>tnm[mm][56]){
                tnm[cnt][0]=mm+1;
                for(n=1; n<65; n++){tnm[cnt][n]=tnm[mm][n];}
                cnt++;}}
    }
    for(n=0; n<65; n++){tnm[cnt][n]=0;}
    tcnt=cnt;
    mksol26();
    srt26();
    printf(" [Standard Solu tions of Three-Type Simul taneous Magic Squares\n");
    printf(" of Order 8: 'Composi te', Sel f-Compl ementary and Pan-Di agonal]\n");
    prms8d2i (1, 6);
    prms8(7, 42); printf("\n");
    prms8(358, 366); printf("\n");
    prms8(718, 726); printf("\n");
    prms8(1078, 1086); printf("\n . . . (Ski p). . .\n\n");
    prms8(tcnt-11, tcnt);
    printf("\n [Count = %d] OK!\n", cnt);
    return 0;
}
/**/
/* Sub-Proc edures for Extra-Cubi c Objects of Order 2^6 */
/**/
void mkfv26(){
    short d0, d1, d2, d3, d4, d5;
    for(d0=0; d0<2; d0++){

```

```

for(d1=0; d1<2; d1++){
  for(d2=0; d2<2; d2++){
    for(d3=0; d3<2; d3++){
      for(d4=0; d4<2; d4++){
        for(d5=0; d5<2; d5++){
          tv[vc][0]=d0; tv[vc][1]=d1; tv[vc][2]=d2;
          tv[vc][3]=d3; tv[vc][4]=d4; tv[vc][5]=d5;
          vc++;
        }}}}}
}
/**/
void prmt26(void d){
  short d0, d1, d2, d3, d4, d5, n;
  short ufl g[6];
  for(n=0; n<6; n++){ufl g[n]=0; }
  for(d0=0; d0<6; d0++){
    ufl g[d0]=1;
    for(d1=0; d1<6; d1++){
      if(ufl g[d1]==0){ufl g[d1]=1;
        for(d2=0; d2<6; d2++){
          if(ufl g[d2]==0){ufl g[d2]=1;
            for(d3=0; d3<6; d3++){
              if(ufl g[d3]==0){ufl g[d3]=1;
                for(d4=0; d4<6; d4++){
                  if(ufl g[d4]==0){ufl g[d4]=1;
                    for(d5=0; d5<6; d5++){
                      if(ufl g[d5]==0){ufl g[d5]=1;
                        td[pc][0]=d0; td[pc][1]=d1; td[pc][2]=d2;
                        td[pc][3]=d3; td[pc][4]=d4; td[pc][5]=d5;
                        pc++;
                        ufl g[d5]=0;
                      }}}
                    ufl g[d4]=0;
                  }}}
                ufl g[d3]=0;
              }}}
            ufl g[d2]=0;
          }}}
        ufl g[d1]=0;
      }}}
    ufl g[d0]=0;
  }
}
/**/
void d26(short x, short y){
  short d0, d1, d2, d3, d4, d5;
  short t0, t1, t2, t3, t4, t5;
  short c;
  short s[6], cd[2][2];
  cd[0][0]=0; cd[0][1]=1; cd[1][0]=1; cd[1][1]=0;
  c=0;
  for(d0=0; d0<2; d0++){
    for(d1=0; d1<2; d1++){
      for(d2=0; d2<2; d2++){
        for(d3=0; d3<2; d3++){
          for(d4=0; d4<2; d4++){
            for(d5=0; d5<2; d5++){c++;
              s[0]=cd[tv[x][0]][d0]; s[1]=cd[tv[x][1]][d1]; s[2]=cd[tv[x][2]][d2];
              s[3]=cd[tv[x][3]][d3]; s[4]=cd[tv[x][4]][d4]; s[5]=cd[tv[x][5]][d5];
              t0=td[y][0]; t1=td[y][1]; t2=td[y][2]; t3=td[y][3]; t4=td[y][4]; t5=td[y][5];
              tnm[x*pc+y][c]=((((s[t0]*2+s[t1])*2+s[t2])*2+s[t3])*2+s[t4])*2+s[t5]+1;
            }}}
          }}}
        }}}
      }}}
    }}}
  }
}
/**/

```

```

/* Transform the Answers and Record */
void mksol(void){
    short m, n;
    for(m=0; m<tcnt; m++){
        nm[0]=m+1;
        nm[1]=tnm[m][1];    nm[2]=tnm[m][63];    nm[3]=tnm[m][4];    nm[4]=tnm[m][62];
        nm[5]=tnm[m][6];    nm[6]=tnm[m][60];    nm[7]=tnm[m][7];    nm[8]=tnm[m][57];
        nm[9]=tnm[m][56];    nm[10]=tnm[m][10];    nm[11]=tnm[m][53];    nm[12]=tnm[m][11];
        nm[13]=tnm[m][51];    nm[14]=tnm[m][13];    nm[15]=tnm[m][50];    nm[16]=tnm[m][16];
        nm[17]=tnm[m][25];    nm[18]=tnm[m][39];    nm[19]=tnm[m][28];    nm[20]=tnm[m][38];
        nm[21]=tnm[m][30];    nm[22]=tnm[m][36];    nm[23]=tnm[m][31];    nm[24]=tnm[m][33];
        nm[25]=tnm[m][48];    nm[26]=tnm[m][18];    nm[27]=tnm[m][45];    nm[28]=tnm[m][19];
        nm[29]=tnm[m][43];    nm[30]=tnm[m][21];    nm[31]=tnm[m][42];    nm[32]=tnm[m][24];
        nm[33]=tnm[m][41];    nm[34]=tnm[m][23];    nm[35]=tnm[m][44];    nm[36]=tnm[m][22];
        nm[37]=tnm[m][46];    nm[38]=tnm[m][20];    nm[39]=tnm[m][47];    nm[40]=tnm[m][17];
        nm[41]=tnm[m][32];    nm[42]=tnm[m][34];    nm[43]=tnm[m][29];    nm[44]=tnm[m][35];
        nm[45]=tnm[m][27];    nm[46]=tnm[m][37];    nm[47]=tnm[m][26];    nm[48]=tnm[m][40];
        nm[49]=tnm[m][49];    nm[50]=tnm[m][15];    nm[51]=tnm[m][52];    nm[52]=tnm[m][14];
        nm[53]=tnm[m][54];    nm[54]=tnm[m][12];    nm[55]=tnm[m][55];    nm[56]=tnm[m][9];
        nm[57]=tnm[m][8];    nm[58]=tnm[m][58];    nm[59]=tnm[m][5];    nm[60]=tnm[m][59];
        nm[61]=tnm[m][3];    nm[62]=tnm[m][61];    nm[63]=tnm[m][2];    nm[64]=tnm[m][64];
        for(n=0; n<65; n++){ tnm[m][n]=nm[n]; }
    }
}
/**/
/* Sort the Solutions according to n1,n2,n4,n6 and n9 */
void srt26(void){
    short m, n, f;
    long d1, d2, d3, d4;
    m=tcnt;
    do{f=0; m--;
        for(n=0; n<m; n++){
            if(tnm[n][1]>tnm[n+1][1]){exc26(n); f=1;}
            d1=((tnm[n][2]*65+tnm[n][4])*65+tnm[n][6])*65+tnm[n][8];
            d2=((tnm[n+1][2]*65+tnm[n+1][4])*65+tnm[n+1][6])*65+tnm[n+1][8];
            if((tnm[n][1]==tnm[n+1][1])&&(d1<d2)){exc26(n); f=1;}
            d3=((tnm[n][9]*65+tnm[n][25])*65+tnm[n][41])*65+tnm[n][57];
            d4=((tnm[n+1][9]*65+tnm[n+1][25])*65+tnm[n+1][41])*65+tnm[n+1][57];
            if((tnm[n][1]==tnm[n+1][1])&&(d1==d2)&&(d3<d4)){exc26(n); f=1;}
        }
    }while(f>0);
}
/**/
/* Exchange solution pairs according to their own values */
void exc26(short x){
    short p, sv;
    for(p=1; p<65; p++){sv=tnm[x][p]; tnm[x][p]=tnm[x+1][p]; tnm[x+1][p]=sv;}
}
/**/
/* Print 3 Pieces of '3-T Simul' MS88 */
void prms8(short x, short y){
    short l, l8, m, n, p;
    for(m=x-1; m<y; m=m+3){
        for(n=0; n<3; n++){
            printf("%24d/", tnm[m+n][0]);
            if(n<2){printf(" ");}
        }
        printf("\n");
        for(l=0; l<8; l++){l8=l*8;
            for(n=0; n<3; n++){
                printf(" ");
                for(p=1; p<9; p++){printf("%3d", tnm[m+n][l8+p]);}
                if(n<2){printf(" ");}
            }
        }
        printf("\n");
    }
}

```

```

    }
  }
}
/**/
/* Print MS88 with D2i */
void prms8d2i (short x, short y){
  short l, l8, m, n, d, p;
  short dn[65][7];
  for(m=x-1; m<y; m++){
    for(n=0; n<65; n++){
      dn[n][0]=tnm[m][n]; d=tnm[m][n]-1; p=6;
      do{dn[n][p]=d%2; d=d/2; p--;}while(p>0);
    }
    printf("%24d/ /D2i \n", tnm[m][0]);
    for(l=0; l<8; l++){l8=l*8;
      printf(" ");
      for(p=1; p<9; p++){printf("%3d", dn[l8+p][0]); }
      printf(" ");
      for(n=1; n<7; n++){
        printf(" ");
        for(p=1; p<9; p++){printf("%d", dn[l8+p][n]); }
      }
      printf("\n");
    }
  }
}
/**/

```

The following list shows the execution result of our new composition. I added the decomposition diagrams with our first several solutions.

[Standard Solutions of Three-Type Simultaneous Magic Squares of Order 8: 'Composite', Self-Complementary and Pan-Diagonal (Part)]

		1/	/D2i										
1	63	4	62	6	60	7	57	01010101	01010101	01010101	01011010	01100110	00111100
56	10	53	11	51	13	50	16	10101010	10101010	01010101	10100101	10011001	11000011
25	39	28	38	30	36	31	33	01010101	10101010	10101010	01011010	01100110	00111100
48	18	45	19	43	21	42	24	10101010	01010101	10101010	10100101	10011001	11000011
41	23	44	22	46	20	47	17	10101010	01010101	10101010	01011010	01100110	00111100
32	34	29	35	27	37	26	40	01010101	10101010	10101010	10100101	10011001	11000011
49	15	52	14	54	12	55	9	10101010	10101010	01010101	01011010	01100110	00111100
8	58	5	59	3	61	2	64	01010101	01010101	01010101	10100101	10011001	11000011
		2/	/D2i										
1	63	4	62	6	60	7	57	01010101	01010101	01010101	01011010	01100110	00111100
56	10	53	11	51	13	50	16	10101010	10101010	01010101	10100101	10011001	11000011
41	23	44	22	46	20	47	17	10101010	01010101	10101010	01011010	01100110	00111100
32	34	29	35	27	37	26	40	01010101	10101010	10101010	10100101	10011001	11000011
25	39	28	38	30	36	31	33	01010101	10101010	10101010	01011010	01100110	00111100
48	18	45	19	43	21	42	24	10101010	01010101	10101010	10100101	10011001	11000011
49	15	52	14	54	12	55	9	10101010	10101010	01010101	01011010	01100110	00111100
8	58	5	59	3	61	2	64	01010101	01010101	01010101	10100101	10011001	11000011
		3/	/D2i										
1	63	4	62	6	60	7	57	01010101	01010101	01010101	01011010	01100110	00111100
48	18	45	19	43	21	42	24	10101010	01010101	10101010	10100101	10011001	11000011
25	39	28	38	30	36	31	33	01010101	10101010	10101010	01011010	01100110	00111100
56	10	53	11	51	13	50	16	10101010	10101010	01010101	10100101	10011001	11000011
49	15	52	14	54	12	55	9	10101010	10101010	01010101	01011010	01100110	00111100
32	34	29	35	27	37	26	40	01010101	10101010	10101010	10100101	10011001	11000011
41	23	44	22	46	20	47	17	10101010	01010101	10101010	01011010	01100110	00111100
8	58	5	59	3	61	2	64	01010101	01010101	01010101	10100101	10011001	11000011

4/ /D2i

1	63	4	62	6	60	7	57	01010101	01010101	01010101	01011010	01100110	00111100
48	18	45	19	43	21	42	24	10101010	01010101	10101010	10100101	10011001	11000011
49	15	52	14	54	12	55	9	10101010	10101010	01010101	01011010	01100110	00111100
32	34	29	35	27	37	26	40	01010101	10101010	10101010	10100101	10011001	11000011
25	39	28	38	30	36	31	33	01010101	10101010	10101010	01011010	01100110	00111100
56	10	53	11	51	13	50	16	10101010	10101010	01010101	10100101	10011001	11000011
41	23	44	22	46	20	47	17	10101010	01010101	10101010	01011010	01100110	00111100
8	58	5	59	3	61	2	64	01010101	01010101	01010101	10100101	10011001	11000011

5/ /D2i

1	63	4	62	6	60	7	57	01010101	01010101	01010101	01011010	01100110	00111100
32	34	29	35	27	37	26	40	01010101	10101010	10101010	10100101	10011001	11000011
41	23	44	22	46	20	47	17	10101010	01010101	10101010	01011010	01100110	00111100
56	10	53	11	51	13	50	16	10101010	10101010	01010101	10100101	10011001	11000011
49	15	52	14	54	12	55	9	10101010	10101010	01010101	01011010	01100110	00111100
48	18	45	19	43	21	42	24	10101010	01010101	10101010	10100101	10011001	11000011
25	39	28	38	30	36	31	33	01010101	10101010	10101010	01011010	01100110	00111100
8	58	5	59	3	61	2	64	01010101	01010101	01010101	10100101	10011001	11000011

6/ /D2i

1	63	4	62	6	60	7	57	01010101	01010101	01010101	01011010	01100110	00111100
32	34	29	35	27	37	26	40	01010101	10101010	10101010	10100101	10011001	11000011
49	15	52	14	54	12	55	9	10101010	10101010	01010101	01011010	01100110	00111100
48	18	45	19	43	21	42	24	10101010	01010101	10101010	10100101	10011001	11000011
41	23	44	22	46	20	47	17	10101010	01010101	10101010	01011010	01100110	00111100
56	10	53	11	51	13	50	16	10101010	10101010	01010101	10100101	10011001	11000011
25	39	28	38	30	36	31	33	01010101	10101010	10101010	01011010	01100110	00111100
8	58	5	59	3	61	2	64	01010101	01010101	01010101	10100101	10011001	11000011

7/	8/	9/
1 63 4 62 10 56 11 53	1 63 4 62 10 56 11 53	1 63 4 62 10 56 11 53
60 6 57 7 51 13 50 16	60 6 57 7 51 13 50 16	48 18 45 19 39 25 38 28
21 43 24 42 30 36 31 33	37 27 40 26 46 20 47 17	21 43 24 42 30 36 31 33
48 18 45 19 39 25 38 28	32 34 29 35 23 41 22 44	60 6 57 7 51 13 50 16
37 27 40 26 46 20 47 17	21 43 24 42 30 36 31 33	49 15 52 14 58 8 59 5
32 34 29 35 23 41 22 44	48 18 45 19 39 25 38 28	32 34 29 35 23 41 22 44
49 15 52 14 58 8 59 5	49 15 52 14 58 8 59 5	37 27 40 26 46 20 47 17
12 54 9 55 3 61 2 64	12 54 9 55 3 61 2 64	12 54 9 55 3 61 2 64

10/	11/	12/
1 63 4 62 10 56 11 53	1 63 4 62 10 56 11 53	1 63 4 62 10 56 11 53
48 18 45 19 39 25 38 28	32 34 29 35 23 41 22 44	32 34 29 35 23 41 22 44
49 15 52 14 58 8 59 5	37 27 40 26 46 20 47 17	49 15 52 14 58 8 59 5
32 34 29 35 23 41 22 44	60 6 57 7 51 13 50 16	48 18 45 19 39 25 38 28
21 43 24 42 30 36 31 33	49 15 52 14 58 8 59 5	37 27 40 26 46 20 47 17
60 6 57 7 51 13 50 16	48 18 45 19 39 25 38 28	60 6 57 7 51 13 50 16
37 27 40 26 46 20 47 17	21 43 24 42 30 36 31 33	21 43 24 42 30 36 31 33
12 54 9 55 3 61 2 64	12 54 9 55 3 61 2 64	12 54 9 55 3 61 2 64

13/	14/	15/
1 63 4 62 18 48 19 45	1 63 4 62 18 48 19 45	1 63 4 62 18 48 19 45
60 6 57 7 43 21 42 24	60 6 57 7 43 21 42 24	56 10 53 11 39 25 38 28
13 51 16 50 30 36 31 33	37 27 40 26 54 12 55 9	13 51 16 50 30 36 31 33
56 10 53 11 39 25 38 28	32 34 29 35 15 49 14 52	60 6 57 7 43 21 42 24
37 27 40 26 54 12 55 9	13 51 16 50 30 36 31 33	41 23 44 22 58 8 59 5
32 34 29 35 15 49 14 52	56 10 53 11 39 25 38 28	32 34 29 35 15 49 14 52
41 23 44 22 58 8 59 5	41 23 44 22 58 8 59 5	37 27 40 26 54 12 55 9
20 46 17 47 3 61 2 64	20 46 17 47 3 61 2 64	20 46 17 47 3 61 2 64

16/								17/								18/							
1 63 4 62 18 48 19 45	1 63 4 62 18 48 19 45	1 63 4 62 18 48 19 45	56 10 53 11 39 25 38 28	32 34 29 35 15 49 14 52	32 34 29 35 15 49 14 52	41 23 44 22 58 8 59 5	37 27 40 26 54 12 55 9	41 23 44 22 58 8 59 5	56 10 53 11 39 25 38 28	56 10 53 11 39 25 38 28	37 27 40 26 54 12 55 9	60 6 57 7 43 21 42 24	60 6 57 7 43 21 42 24	60 6 57 7 43 21 42 24	13 51 16 50 30 36 31 33	13 51 16 50 30 36 31 33	13 51 16 50 30 36 31 33	20 46 17 47 3 61 2 64	20 46 17 47 3 61 2 64	20 46 17 47 3 61 2 64			
19/								20/								21/							
1 63 4 62 34 32 35 29	1 63 4 62 34 32 35 29	1 63 4 62 34 32 35 29	60 6 57 7 27 37 26 40	60 6 57 7 27 37 26 40	60 6 57 7 27 37 26 40	13 51 16 50 46 20 47 17	21 43 24 42 54 12 55 9	21 43 24 42 54 12 55 9	48 18 45 19 15 49 14 52	48 18 45 19 15 49 14 52	48 18 45 19 15 49 14 52	56 10 53 11 23 41 22 44	56 10 53 11 23 41 22 44	56 10 53 11 23 41 22 44	25 39 28 38 58 8 59 5	25 39 28 38 58 8 59 5	25 39 28 38 58 8 59 5	48 18 45 19 15 49 14 52	48 18 45 19 15 49 14 52	48 18 45 19 15 49 14 52			
22/								23/								24/							
1 63 4 62 34 32 35 29	1 63 4 62 34 32 35 29	1 63 4 62 34 32 35 29	56 10 53 11 23 41 22 44	48 18 45 19 15 49 14 52	48 18 45 19 15 49 14 52	25 39 28 38 58 8 59 5	21 43 24 42 54 12 55 9	21 43 24 42 54 12 55 9	60 6 57 7 27 37 26 40	60 6 57 7 27 37 26 40	60 6 57 7 27 37 26 40	56 10 53 11 23 41 22 44	56 10 53 11 23 41 22 44	56 10 53 11 23 41 22 44	21 43 24 42 54 12 55 9	21 43 24 42 54 12 55 9	21 43 24 42 54 12 55 9	60 6 57 7 27 37 26 40	60 6 57 7 27 37 26 40	60 6 57 7 27 37 26 40			
25/								26/								27/							
1 63 6 60 4 62 7 57	1 63 6 60 4 62 7 57	1 63 6 60 4 62 7 57	56 10 51 13 53 11 50 16	56 10 51 13 53 11 50 16	56 10 51 13 53 11 50 16	25 39 30 36 28 38 31 33	41 23 46 20 44 22 47 17	41 23 46 20 44 22 47 17	48 18 43 21 45 19 42 24	48 18 43 21 45 19 42 24	48 18 43 21 45 19 42 24	32 34 27 37 29 35 26 40	32 34 27 37 29 35 26 40	32 34 27 37 29 35 26 40	25 39 30 36 28 38 31 33	25 39 30 36 28 38 31 33	25 39 30 36 28 38 31 33	49 15 54 12 52 14 55 9	49 15 54 12 52 14 55 9	49 15 54 12 52 14 55 9			
28/								29/								30/							
1 63 6 60 4 62 7 57	1 63 6 60 4 62 7 57	1 63 6 60 4 62 7 57	48 18 43 21 45 19 42 24	32 34 27 37 29 35 26 40	32 34 27 37 29 35 26 40	49 15 54 12 52 14 55 9	41 23 46 20 44 22 47 17	41 23 46 20 44 22 47 17	56 10 51 13 53 11 50 16	56 10 51 13 53 11 50 16	56 10 51 13 53 11 50 16	25 39 30 36 28 38 31 33	25 39 30 36 28 38 31 33	25 39 30 36 28 38 31 33	48 18 43 21 45 19 42 24	48 18 43 21 45 19 42 24	48 18 43 21 45 19 42 24	41 23 46 20 44 22 47 17	41 23 46 20 44 22 47 17	41 23 46 20 44 22 47 17			
31/								32/								33/							
1 63 6 60 10 56 13 51	1 63 6 60 10 56 13 51	1 63 6 60 10 56 13 51	62 4 57 7 53 11 50 16	62 4 57 7 53 11 50 16	62 4 57 7 53 11 50 16	19 45 24 42 28 38 31 33	35 29 40 26 44 22 47 17	35 29 40 26 44 22 47 17	32 34 27 37 23 41 20 46	32 34 27 37 23 41 20 46	32 34 27 37 23 41 20 46	49 15 54 12 58 8 61 3	49 15 54 12 58 8 61 3	49 15 54 12 58 8 61 3	48 18 43 21 39 25 36 30	48 18 43 21 39 25 36 30	48 18 43 21 39 25 36 30	19 45 24 42 28 38 31 33	19 45 24 42 28 38 31 33	19 45 24 42 28 38 31 33			
48 18 43 21 39 25 36 30	48 18 43 21 39 25 36 30	48 18 43 21 39 25 36 30	35 29 40 26 44 22 47 17	32 34 27 37 23 41 20 46	32 34 27 37 23 41 20 46	19 45 24 42 28 38 31 33	48 18 43 21 39 25 36 30	48 18 43 21 39 25 36 30	49 15 54 12 58 8 61 3	49 15 54 12 58 8 61 3	49 15 54 12 58 8 61 3	32 34 27 37 23 41 20 46	32 34 27 37 23 41 20 46	32 34 27 37 23 41 20 46	35 29 40 26 44 22 47 17	35 29 40 26 44 22 47 17	35 29 40 26 44 22 47 17	14 52 9 55 5 59 2 64	14 52 9 55 5 59 2 64	14 52 9 55 5 59 2 64			

34/ 1 63 6 60 10 56 13 51 32 34 27 37 23 41 20 46 35/ 1 63 6 60 10 56 13 51 36/ 48 18 43 21 39 25 36 30 32 34 27 37 23 41 20 46 32 34 27 37 23 41 20 46 49 15 54 12 58 8 61 3 35 29 40 26 44 22 47 17 49 15 54 12 58 8 61 3 32 34 27 37 23 41 20 46 48 18 43 21 39 25 36 30 19 45 24 42 28 38 31 33 49 15 54 12 58 8 61 3 35 29 40 26 44 22 47 17 62 4 57 7 53 11 50 16 48 18 43 21 39 25 36 30 62 4 57 7 53 11 50 16 48 18 43 21 39 25 36 30 35 29 40 26 44 22 47 17 19 45 24 42 28 38 31 33 19 45 24 42 28 38 31 33 14 52 9 55 5 59 2 64 14 52 9 55 5 59 2 64 14 52 9 55 5 59 2 64

37/ 1 63 6 60 18 48 21 43 38/ 1 63 6 60 18 48 21 43 39/ 62 4 57 7 45 19 42 24 62 4 57 7 45 19 42 24 56 10 51 13 39 25 36 30 11 53 16 50 28 38 31 33 35 29 40 26 52 14 55 9 11 53 16 50 28 38 31 33 56 10 51 13 39 25 36 30 56 10 51 13 39 25 36 30 32 34 27 37 15 49 12 54 11 53 16 50 28 38 31 33 41 23 46 20 58 8 61 3 32 34 27 37 15 49 12 54 32 34 27 37 15 49 12 54 41 23 46 20 58 8 61 3 35 29 40 26 52 14 55 9 22 44 17 47 5 59 2 64 22 44 17 47 5 59 2 64 22 44 17 47 5 59 2 64

40/ 1 63 6 60 18 48 21 43 41/ 1 63 6 60 18 48 21 43 42/ 56 10 51 13 39 25 36 30 32 34 27 37 15 49 12 54 32 34 27 37 15 49 12 54 41 23 46 20 58 8 61 3 35 29 40 26 52 14 55 9 56 10 51 13 39 25 36 30 56 10 51 13 39 25 36 30 41 23 46 20 58 8 61 3 62 4 57 7 45 19 42 24 56 10 51 13 39 25 36 30 62 4 57 7 45 19 42 24 11 53 16 50 28 38 31 33 11 53 16 50 28 38 31 33 35 29 40 26 52 14 55 9 22 44 17 47 5 59 2 64 22 44 17 47 5 59 2 64 22 44 17 47 5 59 2 64

358/ 1 48 25 56 19 62 11 38 359/ 1 48 25 56 21 60 13 36 360/ 32 49 8 41 14 35 22 59 32 49 8 41 12 37 20 61 32 49 8 41 12 37 20 61 37 12 61 20 55 26 47 2 34 15 58 23 54 27 46 3 35 14 59 22 55 26 47 2 60 21 36 13 42 7 50 31 63 18 39 10 43 6 51 30 62 19 38 11 42 7 50 31 34 15 58 23 52 29 44 5 35 14 59 22 55 26 47 2 62 19 38 11 42 7 50 31 34 15 58 23 54 27 46 3 63 18 39 10 43 6 51 30 62 19 38 11 42 7 50 31 6 43 30 51 24 57 16 33 4 45 28 53 24 57 16 33 4 45 28 53 24 57 16 33 29 52 5 44 9 40 17 64 29 52 5 44 9 40 17 64 29 52 5 44 9 40 17 64

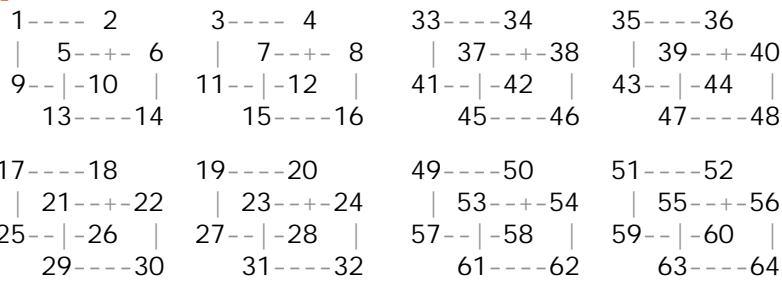
361/ 2 64 3 61 5 59 8 58 362/ 2 64 3 61 5 59 8 58 363/ 55 9 54 12 52 14 49 15 55 9 54 12 52 14 49 15 47 17 46 20 44 22 41 23 42 24 43 21 45 19 48 18 26 40 27 37 29 35 32 34 31 33 30 36 28 38 25 39 55 9 54 12 52 14 49 15 50 16 51 13 53 11 56 10 47 17 46 20 44 22 41 23 31 33 30 36 28 38 25 39 47 17 46 20 44 22 41 23 50 16 51 13 53 11 56 10 42 24 43 21 45 19 48 18 7 57 6 60 4 62 1 63 7 57 6 60 4 62 1 63 7 57 6 60 4 62 1 63

364/ 2 64 3 61 5 59 8 58 365/ 2 64 3 61 5 59 8 58 366/ 47 17 46 20 44 22 41 23 31 33 30 36 28 38 25 39 42 24 43 21 45 19 48 18 50 16 51 13 53 11 56 10 55 9 54 12 52 14 49 15 47 17 46 20 44 22 41 23 26 40 27 37 29 35 32 34 50 16 51 13 53 11 56 10 42 24 43 21 45 19 48 18 55 9 54 12 52 14 49 15 47 17 46 20 44 22 41 23 42 24 43 21 45 19 48 18 26 40 27 37 29 35 32 34 7 57 6 60 4 62 1 63 7 57 6 60 4 62 1 63 7 57 6 60 4 62 1 63

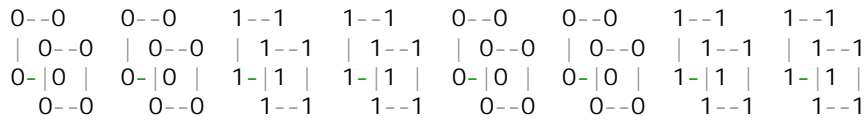
Let me show you the next diagrams below with binary decompositions. I put them to both the prototype and corresponding object solutions. What do they mean?

** The Most Fundamental Three of 'S-C' & 'C&C' M. C. 4^{^3} and M. S. 8^{^2} **

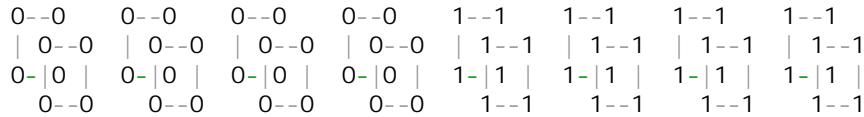
[1] P1/EC2^{^6}



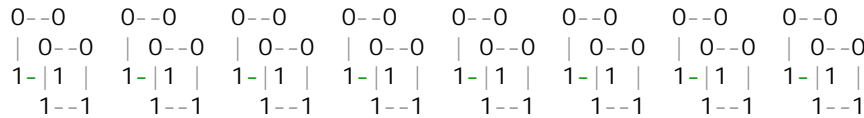
/D2i: 2^{^5}/



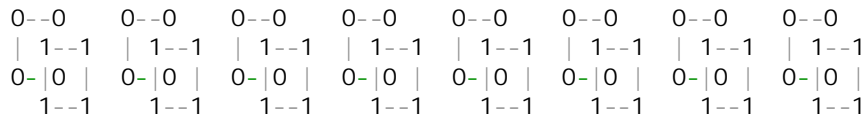
2^{^4}/



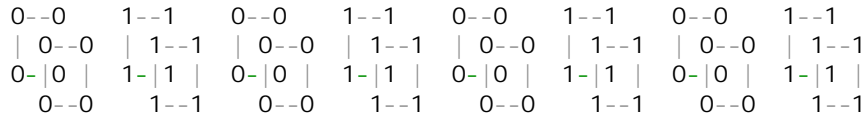
2^{^3}/



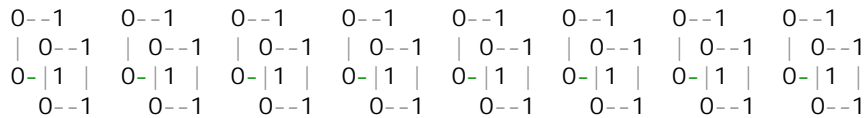
2^{^2}/



2^{^1}/



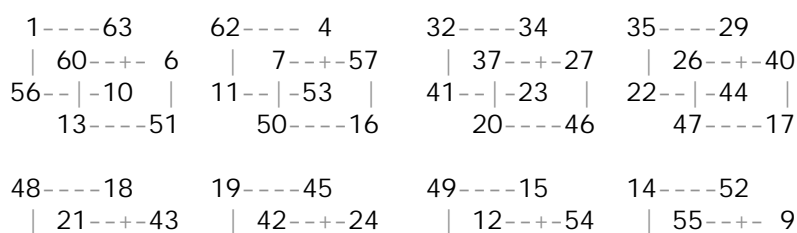
2^{^0}/



P1/ /D2i

1	2	3	4	5	6	7	8	00000000	00000000	00000000	00001111	00110011	01010101
9	10	11	12	13	14	15	16	00000000	00000000	11111111	00001111	00110011	01010101
17	18	19	20	21	22	23	24	00000000	11111111	00000000	00001111	00110011	01010101
25	26	27	28	29	30	31	32	00000000	11111111	11111111	00001111	00110011	01010101
33	34	35	36	37	38	39	40	11111111	00000000	00000000	00001111	00110011	01010101
41	42	43	44	45	46	47	48	11111111	00000000	11111111	00001111	00110011	01010101
49	50	51	52	53	54	55	56	11111111	11111111	00000000	00001111	00110011	01010101
57	58	59	60	61	62	63	64	11111111	11111111	11111111	00001111	00110011	01010101
								/2 ^{^5}	/4	/3	/2	/1	/0

S1/EC2^{^6}



25--|-39 | 38--|-28 | 8--|-58 | 59--|- 5 |
 36-----30 | 31-----33 | 61----- 3 | 2-----64

/D2i: 2^5/

0--1 1--0 0--1 1--0 1--0 0--1 1--0 0--1
 | 1--0 | 0--1 | 1--0 | 0--1 | 0--1 | 1--0 | 0--1 | 1--0
 1-|0 | 0-|1 | 1-|0 | 0-|1 | 0-|1 | 1-|0 | 0-|1 | 1-|0 |
 0--1 1--0 0--1 1--0 1--0 0--1 1--0 0--1

2^4/

0--1 1--0 1--0 0--1 0--1 1--0 1--0 0--1
 | 1--0 | 0--1 | 0--1 | 1--0 | 1--0 | 0--1 | 0--1 | 1--0
 1-|0 | 0-|1 | 0-|1 | 1-|0 | 1-|0 | 0-|1 | 0-|1 | 1-|0 |
 0--1 1--0 1--0 0--1 0--1 1--0 1--0 0--1

2^3/

0--1 1--0 1--0 0--1 1--0 0--1 0--1 1--0
 | 1--0 | 0--1 | 0--1 | 1--0 | 0--1 | 1--0 | 1--0 | 0--1
 0-|1 | 1-|0 | 1-|0 | 0-|1 | 1-|0 | 0-|1 | 0-|1 | 1-|0 |
 1--0 0--1 0--1 1--0 0--1 1--0 1--0 0--1

2^2/

0--1 1--0 1--0 0--1 1--0 0--1 0--1 1--0
 | 0--1 | 1--0 | 1--0 | 0--1 | 1--0 | 0--1 | 0--1 | 1--0
 1-|0 | 0-|1 | 0-|1 | 1-|0 | 0-|1 | 1-|0 | 1-|0 | 0-|1 |
 1--0 0--1 0--1 1--0 0--1 1--0 1--0 0--1

2^1/

0--1 0--1 1--0 1--0 1--0 1--0 0--1 0--1
 | 1--0 | 1--0 | 0--1 | 0--1 | 0--1 | 0--1 | 1--0 | 1--0
 1-|0 | 1-|0 | 0-|1 | 0-|1 | 0-|1 | 0-|1 | 1-|0 | 1-|0 |
 0--1 0--1 1--0 1--0 1--0 1--0 0--1 0--1

2^0/

0--0 1--1 1--1 0--0 1--1 0--0 0--0 1--1
 | 1--1 | 0--0 | 0--0 | 1--1 | 0--0 | 1--1 | 1--1 | 0--0
 1-|1 | 0-|0 | 0-|0 | 1-|1 | 0-|0 | 1-|1 | 1-|1 | 0-|0 |
 0--0 1--1 1--1 0--0 1--1 0--0 0--0 1--1

S1/ /D2i

1 63 4 62 6 60 7 57	01010101	01010101	01010101	01011010	01100110	00111100
56 10 53 11 51 13 50 16	10101010	10101010	01010101	10100101	10011001	11000011
25 39 28 38 30 36 31 33	01010101	10101010	10101010	01011010	01100110	00111100
48 18 45 19 43 21 42 24	10101010	01010101	10101010	10100101	10011001	11000011
41 23 44 22 46 20 47 17	10101010	01010101	10101010	01011010	01100110	00111100
32 34 29 35 27 37 26 40	01010101	10101010	10101010	10100101	10011001	11000011
49 15 52 14 54 12 55 9	10101010	10101010	01010101	01011010	01100110	00111100
8 58 5 59 3 61 2 64	01010101	01010101	01010101	10100101	10011001	11000011
	/2^5	/^4	/^3	/^2	/^1	/^0

[2]

P2/ /D2i

1 3 2 4 5 7 6 8	00000000	00000000	00000000	00001111	01010101	00110011
9 11 10 12 13 15 14 16	00000000	00000000	11111111	00001111	01010101	00110011
17 19 18 20 21 23 22 24	00000000	11111111	00000000	00001111	01010101	00110011
25 27 26 28 29 31 30 32	00000000	11111111	11111111	00001111	01010101	00110011
33 35 34 36 37 39 38 40	11111111	00000000	00000000	00001111	01010101	00110011
41 43 42 44 45 47 46 48	11111111	00000000	11111111	00001111	01010101	00110011
49 51 50 52 53 55 54 56	11111111	11111111	00000000	00001111	01010101	00110011
57 59 58 60 61 63 62 64	11111111	11111111	11111111	00001111	01010101	00110011

S2/ /D2i

1 62 4 63 7 60 6 57	01010101	01010101	01010101	01011010	00111100	01100110
56 11 53 10 50 13 51 16	10101010	10101010	01010101	10100101	11000011	10011001
25 38 28 39 31 36 30 33	01010101	10101010	10101010	01011010	00111100	01100110
48 19 45 18 42 21 43 24	10101010	01010101	10101010	10100101	11000011	10011001
41 22 44 23 47 20 46 17	10101010	01010101	10101010	01011010	00111100	01100110
32 35 29 34 26 37 27 40	01010101	10101010	10101010	10100101	11000011	10011001
49 14 52 15 55 12 54 9	10101010	10101010	01010101	01011010	00111100	01100110
8 59 5 58 2 61 3 64	01010101	01010101	01010101	10100101	11000011	10011001
	/2^5	/^4	/^3	/^2	/^1	/^0

[3]

								P3/	/D2i					
1	2	5	6	3	4	7	8	00000000	00000000	00000000	00110011	00001111	01010101	
9	10	13	14	11	12	15	16	00000000	00000000	11111111	00110011	00001111	01010101	
17	18	21	22	19	20	23	24	00000000	11111111	00000000	00110011	00001111	01010101	
25	26	29	30	27	28	31	32	00000000	11111111	11111111	00110011	00001111	01010101	
33	34	37	38	35	36	39	40	11111111	00000000	00000000	00110011	00001111	01010101	
41	42	45	46	43	44	47	48	11111111	00000000	11111111	00110011	00001111	01010101	
49	50	53	54	51	52	55	56	11111111	11111111	00000000	00110011	00001111	01010101	
57	58	61	62	59	60	63	64	11111111	11111111	11111111	00110011	00001111	01010101	
								S3/	/D2i					
1	63	6	60	4	62	7	57	01010101	01010101	01010101	01100110	01011010	00111100	
56	10	51	13	53	11	50	16	10101010	10101010	01010101	10011001	10100101	11000011	
25	39	30	36	28	38	31	33	01010101	10101010	10101010	01100110	01011010	00111100	
48	18	43	21	45	19	42	24	10101010	01010101	10101010	10011001	10100101	11000011	
41	23	46	20	44	22	47	17	10101010	01010101	10101010	01100110	01011010	00111100	
32	34	27	37	29	35	26	40	01010101	10101010	10101010	10011001	10100101	11000011	
49	15	54	12	52	14	55	9	10101010	10101010	01010101	01100110	01011010	00111100	
8	58	3	61	5	59	2	64	01010101	01010101	01010101	10011001	10100101	11000011	
								/2^5	/^4	/^3	/^2	/^1	/^0	

[4]

								P4/	/D2i					
1	3	5	7	2	4	6	8	00000000	00000000	00000000	00110011	01010101	00001111	
9	11	13	15	10	12	14	16	00000000	00000000	11111111	00110011	01010101	00001111	
17	19	21	23	18	20	22	24	00000000	11111111	00000000	00110011	01010101	00001111	
25	27	29	31	26	28	30	32	00000000	11111111	11111111	00110011	01010101	00001111	
33	35	37	39	34	36	38	40	11111111	00000000	00000000	00110011	01010101	00001111	
41	43	45	47	42	44	46	48	11111111	00000000	11111111	00110011	01010101	00001111	
49	51	53	55	50	52	54	56	11111111	11111111	00000000	00110011	01010101	00001111	
57	59	61	63	58	60	62	64	11111111	11111111	11111111	00110011	01010101	00001111	
								S4/	/D2i					
1	62	7	60	4	63	6	57	01010101	01010101	01010101	01100110	00111100	01011010	
56	11	50	13	53	10	51	16	10101010	10101010	01010101	10011001	11000011	10100101	
25	38	31	36	28	39	30	33	01010101	10101010	10101010	01100110	00111100	01011010	
48	19	42	21	45	18	43	24	10101010	01010101	10101010	10011001	11000011	10100101	
41	22	47	20	44	23	46	17	10101010	01010101	10101010	01100110	00111100	01011010	
32	35	26	37	29	34	27	40	01010101	10101010	10101010	10011001	11000011	10100101	
49	14	55	12	52	15	54	9	10101010	10101010	01010101	01100110	00111100	01011010	
8	59	2	61	5	58	3	64	01010101	01010101	01010101	10011001	11000011	10100101	
								/2^5	/^4	/^3	/^2	/^1	/^0	

Do you notice all the solutions are 'Complete Euler Squares' of order 8? Every row and column of the solutions has the same number pattern of {0, 0, 1, 1} or {0, 0, 0, 0, 1, 1, 1, 1} in any layer of binary decompositions. Each pan-diagonal has also the same combination of numbers. Every little square of 2 by 2 in any layer has the same thing, too. It means they are the mathematical basis of the same 'magic constant'.

$$(0+0+1+1)x^{2^5}+(0+0+1+1)x^{2^4}+(0+0+1+1)x^{2^3}+(0+0+1+1)x^{2^2}+(0+0+1+1)x^{2^1}+(0+0+1+1)x^{2^0} = (0+0+1+1)x(32+16+8+4+2+1) =126$$

$$(0+0+0+0+1+1+1+1)x(2^5+2^4+2^3+2^2+2^1+2^0) = 4x(32+16+8+4+2+1) =252$$

The sum 126 here is logically equivalent to 130 in our classical notation. The sum 252 here is also equivalent to 260 in our classical notation.

Yes. We have done everything in order to compose 'Complete Euler Squares' of order 8 for our objects unconsciously.

We know both of the two objects are really the 'Complete Euler Cubes' of order 4 and 'Complete Euler Squares' of order 8.

Under the premise of using generator program of binary numbers, we really made the 'Complete Euler' type of cubes and squares by drawing all possible view-forms of

ECO2⁶, and make them into our objects by 'DAM Transformations'.

Binary Number System is the true reason for our success.

As you guess, you can only make your objects by this method of composition, as far as they are 'Complete Euler' type of magic squares and cubes. You can make no other than 'C.E.S.' or 'C.E.C.' On top of that you can only make those objects that are essentially any developed forms of high-dimensional Extra-Cubic Object.

In other words you can only make 'Complete Euler Squares' of order 4, 8 and 16, and 'C. E. Cubes' of order 4 actually by this method.

It sounds like only a limited application, and I am afraid it might discourage you, but don't be disappointed. It can surely make many important magic forms.

For instance, you can make self-complementary MS8² including multiple little squares 4² within, as well as the same multiple type of 'C&C' MS8². You can also make multiple type of self-complementary MC4³ including little cubes 2³ within. They might be any 'fundamental solutions' of the common magic forms, we can expect.

They might be all the offspring of the only one origin, whose family they should essentially belong to, I think.

I myself am so excited that I am convinced there might be a great relationship among those topics: 'binary number system', 'Complete Euler Squares', 'High-dimensional Extra-Cubic Objects', 'Prototype squares' and 'DAM Transformation'.

For they are all the special themes that I have always studied about as hard as I could. Everything I know seems to point at the same thing. It is wonderful, isn't it?

I say this 'great relationship' might have been one of the greatest 'mysteries' revealed to us by our Divine Being, the only Creator of Everything.

My philosophical spirit is now getting more active and would hardly sleep.

(Original written in English on May 17, 2005; MacOSX(10.3) & Xcode 1.5;

Revised on April 2, 2006; Working on MacOSX(10.4) & Xcode 2.1; by Kanji Setsuda)

E-Mail Address: <jag12001@nifty.com>