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Phase 8

VALUES (Axioms & Postulates) OF VEDIC GANITA SUTRAS

Phase 8.4
First three letters and syllables of Ganita Sutras & Upsutras

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Abstract

Upnishads are essence of Vedic knowledge and its systems. TCV (पुरूष / Pursha) = 24 = 4 x 6, is formulation of creative (4-space) dimensional order of 6-space, accepting synthetic Sathatpatya measuring rod of Hyper cube 1 to 6, the representative regular body of 1-space to 6-space parallel to dimensional frames of Sathapatya measuring rod, is the set up of artifices of numbers '1 to 6'. TCV (पुराण) = 21 = 1 + 2 + 3 + 4 + 5 + 6. The split spectra of 6-space content (D6) is of four folds (6, 4, 4, 2) of summation value '16'. Numbers range 1 to 16 is a set up of '29' factors. The organization of number value 29 = 16 + 13 is parallel with the set up of 16 Ganita Sutras and 13 Ganita Upsutras. The number value 29 is also parallel with TCV (ब्रह्मा) = '29'. Text of '29' Ganita Upsutras and Upsutras is a composition of '46' words formulations. Number value 46 is parallel with TCV (नरसिंहं / Narsingham / Incarnation of Lord Vishanu) of organisation order 'स्त्रिविक्रमः' – 'स्त्रि / Tri' = 7, 'वि / Vi' = 9, 'क्रम / Karam' = 13. The basis base of Puranas chase of Vedic knowledge and its systems is of the format and values of Ganita Sutras and Upsutras. The whole range of words formulations of the text of Ganita Sutras and Upsutras are being availed. Here as an illustration, Vishnu Puran shaloka 93 and 94 pointed, in the context of Ganita Sutra 3 text formulation 'ऊर्ध्वतिर्यगभ्याम्'

बलिशा बत यूयं वै नास्या जानीत वै भुवः अन्तरूर्ध्वमधश्चैव कथं सृक्ष्यथ वै प्रजा।। ६३

ऊर्ध्वं तिर्यगधश्चैव यदाऽप्रतिहता गतिः तदा कस्माद्भुवो नान्तं सर्वे द्रक्ष्यथ बालिशाः।। ६४

Before, other formulations of text of Ganita Sutras and Upsutras are enlisted from Puranas, at present following 18 tables of organization features of the text of

Ganita Sutras and Upsutras leading to following organization features, are being reached : -

Organization data of the text of Ganita Sutras and Ganita Upsutras

1. Four head Lord Brahma is the overlord of creator (4-space)
2. TCV (ब्रह्मा) =29
3. Table of 29 factors of numbers range 1 to 16

N	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
F	1	1	1	2	1	2	1	3	2	2	1	3	1	2	2	4
T	1	2	3	5	6	8	9	12	14	16	17	20	21	23	25	29

4. Total Sutras = **16,** Total Upsutras = **13**

   Total Sutras and Upsutras 16 + 13 = **29**

5. Total TCV value of the text of 16 Ganita Sutras = **1110**.

6. Total TCV value of first three letters of Ganita Sutras = **194**

7. Total TCV value of first three syllables of Ganita Sutras = **380**

8. Total TCV value of first three letters and first three syllables of Ganita Sutras **194 + 380 = 574**

9. Total TCV value of first three letters of Ganita Upsutras = **171**

10. Total TCV value of first three syllables of Ganita Upsutras = **336**

11. Total TCV value of first three letters and first three syllables of Ganita Sutras **171 + 336 = 507**

12. Grand total of first three letters and first three syllables of Ganita Sutras and Ganita Upsutras **574 + 507 = 1081**

13. Total TCV value of the text of 16 Ganita Sutras is **1110**

14. Organization features of text of Ganita Sutras and Upsutras

1110 = 1081 + 29

Index of tables
C1 = Table number, T2 = Table

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Table – 1   First letters of Sutras

C0 = Sutras Serial number, C1 = First letter of the Sutra
C2 = TCV of Sutra, C3 = Total TCV

C0	C1	C2	C3
1	ए	6	6
2	न्	8	14
3	ऊ	6	20
4	प्	5	25
5	श्	2	27
6	आ	2	29
7	स्	3	32
8	प्	5	37

C0	C1	C2	C3
9	च्	2	39
10	य्	1	40
11	व्	7	47
12	श्	2	49
13	स्	3	52
14	ए	6	58
15	ग्	3	61
16	ग्	3	64

Table – 2 First two letters of Sutras

C0 = Sutras Serial number, C1 = First letter of the Sutra, C2 = TCV of Sutra, C3 = Total TCV, C4 = Second letter of the Sutra, C5 = TCV of Second Sutra, C6 = Total TCV of Second letters, C7 = Grand total TCV of first and second letter of the Sutra

C0	C1	C2	C3	C4	C5	C6	C7
1	ए	6	6	क्	1	1	7
2	न्	8	14	इ	2	3	17
3	ऊ	6	20	घ्	7	10	30
4	प्	5	25	अ	1	11	36
5	श्	2	27	ऊ	6	17	44
6	आ	2	29	न्	8	25	54
7	स्	3	32	अ	1	26	58

8	प्	5	37	ऊ	6	32	69
9	च्	2	39	अ	1	33	72
10	य्	1	40	आ	2	35	75
11	व्	7	47	य्	1	36	83
12	श्	2	49	ए	6	42	91
13	स्	3	52	ओ	7	49	101
14	ए	6	58	क्	4	53	111
15	ग्	3	61	उ	3	56	117
16	ग्	3	64	उ	3	59	123

Table – 3 : First three letters of Sutras

C0 = Sutras Serial number, C1 = First letter of the Sutra, C2 = TCV of Sutra, C3 = Total TCV, C4 = Second letter of the Sutra, C5 = TCV of Second Sutra, C6 = Total TCV of Second letters, C7 = Third letter of the Sutra, C8 = TCV of Third Sutra, C9 = Total TCV of Third letters, C10 = C7 = Grand total TCV of first three letters of the Sutra

C0	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10
1	ए	6	6	क्	1	1	आ	2	2	9
2	न्	8	14	इ	2	3	खू	2	4	21
3	ऊ	6	20	घ्	7	10	(	2	6	36
4	प्	5	25	अ	1	11	र्	3	9	45
5	श्	2	27	ऊ	6	17	न्	8	17	61
6	आ	2	29	न्	8	25	उ	3	20	74
7	स्	3	32	अ	1	26	·।	9	29	87
8	प्	5	37	ऊ	6	32	र्	3	32	101
9	च्	2	39	अ	1	33	ल्	5	37	109
10	य्	1	40	आ	2	35	व्	7	44	119
11	व्	7	47	य्	1	36	अ	1	45	128
12	श्	2	49	ए	6	42	ष्	6	51	142
13	स्	3	52	ओ	7	49	प्	5	56	157
14	ए	6	58	क्	4	53	अ	1	57	168
15	ग्	3	61	उ	3	56	ण्	7	64	181
16	ग्	3	64	उ	3	59	ण्	7	71	194

Table – 4 : First letters of Upsutras

C0 = Upsutras Serial number, C1 = First letter of the Upsutra,
C2 = TCV of Upsutra, C3 = Total TCV of Upsutra

C0	C1	C2	C3		C0	C1	C2	C3
1	आ	2	2		8	अ	1	20
2	.श्	2	4		9	अ	1	21
3	आ	2	6		10	स्	3	24
4	क्	4	10		11	ल्	5	29
5	व्	7	17		12	व्	7	36
6	य्	1	18		13	ग्	3	39
7	य्	1	19					

Table – 5 : First two letters of Upsutras

C0 = Upsutras Serial number, C1 = First letter of the Upsutra, C2 = TCV of Upsutra, C3 = Total TCV, C4 = Second letter of the Upsutra, C5 = TCV of Second Upsutra, C3 = Total TCV of Second letters, C7 = Grand total TCV of first and second letter of the Upsutra

C0	C1	C2	C3	C4	C5	C6	C7
1	आ	2	2	न्	8	8	10
2	श्	2	4	इ	2	10	14
3	आ	2	6	द्	6	16	22
4	क्	4	10	ए	6	22	32
5	व्	7	17	ए	6	28	45
6	य्	1	18	आ	2	30	48
7	य्	1	19	आ	2	32	51
8	अ	1	20	न्	8	40	60
9	अ	1	21	न्	8	48	69
10	स्	3	24	अ	1	49	73
11	ल्	5	29	ओ	7	56	85
12	व्	7	36	इ	2	58	94
13	ग्	3	39	उ	3	61	100

Table – 6 : First three letters of Upsutras

C0 = Upsutras Serial number, C1 = First letter of the Upsutra, C2 = TCV of Upsutra, C3 = Total TCV, C4 = Second letter of the Upsutra, C5 = TCV of Second Upsutra, C6 = Total TCV of Second letters, C7 = Third letter of the Upsutra, C8 = TCV of Third Upsutra, C9 = Total TCV of Third letters, C7 = Grand total TCV of first three letters of the Upsutra

C0	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10
1	आ	2	2	न्	8	8	उ	3	3	13
2	श्	2	4	इ	2	10	ष्	6	9	23
3	आ	2	6	द्	6	16	य्	1	10	32
4	क्	4	10	ए	6	22	व्	7	17	49
5	व्	7	17	ए	6	28	ष्	6	23	68
6	य्	1	18	आ	2	30	व्	7	30	78
7	य्	1	19	आ	2	32	व्	7	37	88
8	अ	1	20	न्	8	40	त्	4	41	101
9	अ	1	21	न्	8	48	त्	4	45	114
10	स्	3	24	अ	1	49	म्	9	54	127
11	ल्	5	29	ओ	7	56	प्	5	59	144
12	व्	7	36	इ	2	58	ल्	5	64	158
13	ग्	3	39	उ	3	61	ण्	7	71	171

Table – 7: First syllable of Sutras

C0 = Sutras Serial number, C1 = First syllable of the Sutra, C2 = TCV of Sutra, C3 = Total TCV

c1	c2	c3	c1	c2	c3
1	ए	6	9	च	3
2	नि	10	10	या	3
3	ऊ	6	11	व्य	9
4	प	6	12	शे	8
5	शू	8	13	सो	10
6	आ	2	14	ए	6
7	सं	13	15	गु	6
8	पू	11	16	गु	6

Table – 8 : First two syllables of Sutras

C0 = Sutras Serial number, C1 = First syllables of the Sutra, C2 = TCV of Sutra, C3 = Total TCV, C4 = Second syllables of the Sutra, C5 = TCV of Second Sutra, C6 = Total TCV of Second syllables, C7 = Grand total TCV of first and second syllables of the Sutra

C0	c1	c2	c3	c4	c5	c6	c7
1	ए	6	6	का	6	6	12
2	नि	10	16	खि	4	10	26
3	ऊ	6	22	र्ध्व	11	21	43
4	प	6	28	रा	5	26	54
5	शू	8	36	न्यं	19	45	81
6	आ	2	38	नु	11	56	94
7	सं	13	51	क	5	61	112
8	पू	11	62	र	4	65	127
9	च	3	65	ल	6	71	136
10	या	3	68	व	8	79	147
11	व्य	9	77	ष्टि	11	90	167
12	शे	8	85	षा	8	98	183
13	सो	10	95	पा	7	105	200
14	ए	6	101	क	5	110	211
15	गु	6	107	णि	9	119	226
16	गु	6	113	ण	8	127	240

Table – 9: First three syllables of Sutras

C0 = Sutras Serial number, C1 = First syllable of the Sutra, C2 = TCV of Sutra, C3 = Total TCV, C4 = Second syllable of the Sutra, C5 = TCV of Second Sutra, C6 = Total TCV of Second syllables, C7 = Third syllable of the Sutra, C8 = TCV of Third Sutra, C9 = Total TCV of Third syllables, c10 = Total TCV of Third letters, C7 = Grand total TCV of first three letters of the Upsutra

C0	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10
1	ए	6	6	का	6	6	धि	9	9	21
2	नि	10	16	खि	4	10	लं	15	24	50
3	ऊ	6	22	र्ध्व	11	21	ति	6	30	73
4	प	6	28	रा	5	26	व	8	38	92
5	शू	8	36	न्यं	19	45	सा	5	43	124
6	आ	2	38	नु	11	56	रू	9	52	146
7	सं	13	51	क	5	61	ल	6	58	170

8	पू	11	62	र	4	65	णा	9	67	194
9	च	3	65	ल	6	71	न	9	76	212
10	या	3	68	व	8	79	दू	12	88	235
11	व्य	9	77	ष्टि	11	90	स	4	92	259
12	शे	8	85	षा	8	98	ण्य	9	101	284
13	सो	10	95	पा	7	105	न्त्य	14	115	315
14	ए	6	101	क	5	110	न्यू	15	130	341
15	गु	6	107	णि	9	119	त	5	135	361
16	गु	6	113	ण	8	127	क	5	140	380

Table – 10 : First syllable of Upsutras

C0 = Upsutras Serial number, C1 = First syllable of the Upsutra, C2 = TCV of Upsutra, C3 = Total TCV

c1	c2	c3	c4
1	आ	2	2
2	शि	4	6
3	आ	2	8
4	के	7	15
5	वे	13	28
6	या	3	31

7	या	3	34
8	अ	1	35
9	अ	1	36
10	स	4	40
11	लो	12	52
12	वि	9	61
13	गु	6	67

Table – 11: First two syllables of Upsutras

C0 = Upsutras Serial number, C1 = First syllables of the Upsutra, C2 = TCV of Upsutra, C3 = Total TCV, C4 = Second syllables of the Upsutra, C5 = TCV of Second Upsutra, C6 = Total TCV of Second syllables, C7 = Grand total TCV of first and second syllables of the Sutra

C0	c1	c2	c3	c4	c5	c6	c7
1	आ	2	2	नु	11	11	13
2	शि	4	6	ष्य	8	19	25
3	आ	2	8	ध	8	27	35
4	के	7	15	व	8	35	50
5	वे	13	28	ष्ट	10	45	73
6	या	3	31	व	8	53	84
7	या	3	34	व	8	61	95

8	अ	1	35	न्त्य	14	75	110
9	अ	1	36	न्त्य	14	89	125
10	स	4	40	मु	12	101	141
11	लो	12	52	प	6	107	159
12	वि	9	61	लो	12	119	180
13	गु	6	67	णि	9	128	195

Table – 12 : First three syllables of Upsutras

C0 = Upsutras Serial number, C1 = First syllable of the Upsutra, C2 = TCV of Upsutra, C3 = Total TCV, C4 = Second syllable of the Upsutra, C5 = TCV of Second Upsutra, C6 = Total TCV of Second syllables, C7 = Third syllable of the Upsutra, C8 = TCV of Third Upsutra, C9 = Total TCV of Third syllables, C10 = C7 = Grand total TCV of first three syllables of the Upsutras

C0	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10
1	आ	2	2	नु	11	11	रू	9	9	22
2	शि	4	6	ष्य	8	19	ते	10	19	44
3	आ	2	8	ध	8	27	मा	11	30	65
4	के	7	15	व	8	35	लैः	26	56	106
5	वे	13	28	ष्ट	10	45	नम्	18	74	147
6	या	3	31	व	8	53	दू	15	89	173
7	या	3	34	व	8	61	दू	15	104	199
8	अ	1	35	न्त्य	14	75	यो	8	112	222
9	अ	1	36	न्त्य	14	89	यो	8	120	245
10	स	4	40	मु	12	101	च्च	5	125	266
11	लो	12	52	प	6	107	न	9	134	293
12	वि	9	61	लो	12	119	क	2	136	316
13	गु	6	67	णि	9	128	त	5	141	336

Table - 13 : Consolidated table of TCV values of First three letters of Sutras

T1 = Sutras Serial number, T2 = TCV of Sutra, T3 = Total TCV, T4 = TCV of Second Sutra, T5 = Total TCV of Second letters, T6 = TCV of Third Sutra, T7 = Total TCV of Third letters, T8 = Grand total TCV of first three letters of the Sutra

T1	T2	T3	T4	T5	T6	T7	T8
1	6	6	1	1	2	2	9
2	8	14	2	3	2	4	21

3	6	20	7	10	2	6	36
4	5	25	1	11	3	9	45
5	2	27	6	17	8	17	61
6	2	29	8	25	3	20	74
7	3	32	1	26	9	29	87
8	5	37	6	32	3	32	101
9	2	39	1	33	5	37	109
10	1	40	2	35	7	44	119
11	7	47	1	36	1	45	128
12	2	49	6	42	6	51	142
13	3	52	7	49	5	56	157
14	6	58	4	53	1	57	168
15	3	61	3	56	7	64	181
16	**3**	**64**	**3**	**59**	**7**	**71**	**194**

Table - 14 : Consolidated table of TCV values of First three letters of Upsutras

T1 = Upsutras Serial number, T2 = TCV of Upsutra, T3 = Total TCV, T4 = TCV of Second Upsutra, T5 = Total TCV of Second letters, T6 = TCV of Third Upsutra, T7 = Total TCV of Third letters, T8 = Grand total TCV of first three letters of the Upsutra

T1	T2	T3	T4	T5	T6	T7	T8
1	2	2	8	8	3	3	13
2	2	4	2	10	6	9	23
3	2	6	6	16	1	10	32
4	4	10	6	22	7	17	49
5	7	17	6	28	6	23	68
6	1	18	2	30	7	30	78
7	1	19	2	32	7	37	88
8	1	20	8	40	4	41	101
9	1	21	8	48	4	45	114
10	3	24	1	49	9	54	127
11	5	29	7	56	5	59	144
12	7	36	2	58	5	64	158
13	**3**	**39**	**3**	**61**	**7**	**71**	**171**

Table - 15 : Consolidated table of TCV values of First three syllables of Sutras

T1 = Sutras Serial number, T2 = TCV of Sutra, T3 = Total TCV, T4 = TCV of Second Sutra, T5 = Total TCV of Second syllables, T6 = TCV of Third Sutra, T7 = Total TCV of Third syllables, T8 = Grand total TCV of first three syllables of the Sutra

T0	T1	T2	T3	T4	T5	T6	T7
1	6	6	6	6	9	9	21
2	10	16	4	10	15	24	50
3	6	22	11	21	6	30	73
4	6	28	5	26	8	38	92
5	8	36	19	45	5	43	124
6	2	38	11	56	9	52	146
7	13	51	5	61	6	58	170
8	11	62	4	65	9	67	194
9	3	65	6	71	9	76	212
10	3	68	8	79	12	88	235
11	9	77	11	90	4	92	259
12	8	85	8	98	9	101	284
13	10	95	7	105	14	115	315
14	6	101	5	110	15	130	341
15	6	107	9	119	5	135	361
16	**6**	**113**	**8**	**127**	**5**	**140**	**380**

Table - 16: Consolidated table of TCV values of First three syllables of Upsutras

T1 = Upsutras Serial number, T2 = TCV of Upsutra, T3 = Total TCV, T4 = TCV of Second Upsutra, T5 = Total TCV of Second syllables, T6 = TCV of Third Upsutra, T7 = Total TCV of Third syllables, T8 = Grand total TCV of first three syllables of the Upsutra

T0	T1	T2	T3	T4	T5	T6	T7
1	2	2	11	11	9	9	22
2	4	6	8	19	10	19	44
3	2	8	8	27	11	30	65
4	7	15	8	35	26	56	106
5	13	28	10	45	18	74	147
6	3	31	8	53	15	89	173
7	3	34	8	61	15	104	199

8	1	35	14	75	8	112	222
9	1	36	14	89	8	120	245
10	4	40	12	101	5	125	266
11	12	52	6	107	9	134	293
12	9	61	12	119	2	136	316
13	**6**	**67**	**9**	**128**	**5**	**141**	**336**

Table 17 : Composition Organization Data of Ganita sutras

SN	Sutra	Words	Syllables	Letters	TCV	VCV
1	एकाधिकेन पूर्वेण।	2	5+3 =8	9+7=16	75	23
2	निखिलं नवतश्चरमं दशतः	3	3+6+3 =12	7+14+7=28	107	52
3	ऊर्ध्वतिर्यग्भ्याम्	1	5	15	58	36
4	परावर्त्य योजयेत्।	2	4+3 = 7	10+7=17	52	32
5	शून्यं साम्यसमुच्चये	2	2+6 = 8	6+14=20	71	42
6	(आनुरूप्ये) शून्यमन्यत्।	2	4+4 = 8	8+11=19	76	22
7	संकलनव्यवकलनाभ्याम्।	1	10	24	91	33
8	पूरणापूरणाभ्याम्।	1	6	16	68	26
9	चलनकलनाभ्याम्।	1	7	16	59	23
10	यावदूनम्।	1	4	9	41	18
11	व्यष्टिसमष्टिः।	1	5	14	58	32
12	शेषाण्यङ्केन चरमेण।	2	4+4=8	12+8=20	79	43
13	सोपान्त्यद्वयमन्त्यम् ।	1	7	20	80	44
14	एकन्यूनेन पूर्वेण।	2	5+3 = 8	10+ 7= 17	84	14
15	गुणितसमुच्चयः	1	7	16	56	38
16	गुणकसमुच्चयः।	1	7	16	55	33
Total 16		24	117	283	1110	511

Table 18 : Integrated Table of the text of 16 Ganita Sutras and 13 Ganita Upsutras

SN	Sutra / Upsutra	SN	Sutra / Upsutra
1	Ganita Sutra 1	16	Ganita Sutra 9
2	Upsutra 1	17	Upsutra 8
3	Ganita Sutra 2	18	Ganita Sutra 10
4	Upsutra 2	19	Upsutra 9
5	Ganita Sutra 3	20	Ganita Sutra 11
6	Upsutra 3	21	Upsutra 10
7	Ganita Sutra 4	22	Ganita Sutra 12
8	Upsutra 4	23	Upsutra 11
9	Ganita Sutra 5	24	Ganita Sutra 13
10	Upsutra 5	25	Upsutra 12
11	Ganita Sutra 6	26	Ganita Sutra 14
12	Upsutra 6	27	Upsutra 13
13	Ganita Sutra 7	28	Ganita Sutra 15
14	Upsutra 7	29	Ganita Sutra 16
15	Ganita Sutra 8		

Note :- Sri Narsingh Puran in its chapter 44, shaloka 16 text at page no 162 published as book no 1113 of Geeta Press Gorakpur – 273005, preserves the enlightenment: 'कृत्वेत्थं नारसिहं तु ययौ विष्णुस्त्रिविक्रमः नरसिंहः स्तम्भमध्यत्रिर्गत्य प्रणनाद च'; Lord Vishnu, overlord of 6-space of creative (4-space order) in its organization order 'स्त्रिविक्रमः' – 'स्त्रि' = 7, 'वि' = 9, 'क्रम' = 13.

This order as such is of three phases, firstly of range 1 to 7, secondly as 1 to 9 and thirdly as 1 to 13.

i. Ganita Upsutras 1 to 7 are sequentially following Ganita Sutras 1 to 7.

ii. As second phase (second half) of the 16 Sutras range, beginning from Sutra 9 onwards, Upsutras 8 to 13, sequentially follow Sutra 9 and is of the reach uptill Sutra 14.

iii. This organizational order, as such makes Sutras 8 and 9 being of equal number of letters (16), and likewise Ganita Sutras 15 and 16, as well being of letters 16 each, there is no placement of Ganita Upsutra for attainment of transition from Sutra 8 to 9 and from Sutra 15 to 16.

iv. It is the organization feature of 6-space.

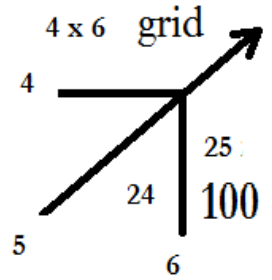'The formulation Narsingh 'नरसिंहः' is of TCV value 46.

a. TCV (विष्णु) = 25.

b. 46 = 25 + 21.

c. 21 = 1 + 2 + 3 + 4 + 5 + 6.

v. (21, 22, 23, 24, 25) is the transcendental range.

vi. (22, 23, 24, 25) is hyper cube 24. The value 24 = 4 x 6, 25 = 5 x 5. Five place value double digit numbers are 24.

vii. First triple digit number of five place value system is '100' of 5 place value system and is of value '25' of ten place value system. '25' is 100 / 4. These are the features of the organization '4 as 1'.

4 x 6 grid

1	2	3	4
10	11	12	13
14	20	21	22
23	24	30	31
32	33	34	40
41	42	43	44

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