

Duration of Row 3 Notes in 16ths

D 11 ♯

E 9 ♯

A \flat 5 ♯

F 8 ♯

C 1 ♯

B 2 ♯

F \sharp 7 ♯

E \flat 10 ♯

A 4 ♯

B \flat 3 ♯

G 6 ♯

D \flat 12 ♯

accommodates 1 hex

*accommodates
2 hexes*

6-1 { C 1 ♯
~~B~~ 2
B \flat 3
A 4
A \flat 5
G 6 ~~12~~

6-1 { F \sharp 7
F 8
E 9
E \flat 10
D 11
D \flat 12

Row 2 Intversion: Outer to center 6-242/6-213

2	10	8	5	11	9	1	0	6	7	3	4
6	2	0	9	3	1	5	4	10	11	7	8
8	4	2	11	5	3	7	6	0	1	9	10
11	7	5	2	8	6	10	9	3	4	0	1
5	1	11	8	2	0	4	3	9	10	6	7
7	3	1	10	4	2	6	5	11	0	8	9
3	11	9	6	0	10	2	1	7	8	4	5
4	0	10	7	1	11	3	2	8	9	5	6
10	6	4	1	7	5	9	8	2	3	11	0
9	5	3	0	6	4	8	7	1	2	10	11
1	9	7	4	10	8	0	11	5	6	2	3
0	8	6	3	9	7	11	10	4	5	1	2

$G-S: [1, 0, 3, 4, 5, 6]$ T_{11} I of form in
 Basis of Row
 $G-S: [11, 0, 3, 4, 5, 6]$ T_2 of form in
 Basis of Row

Row 2 Intversion: Outer to center by retrograde 6-242/6-213

10	2	5	8	9	11	0	1	7	6	4	3
6	10	1	4	5	7	8	9	3	2	0	11
3	7	10	1	2	4	5	6	0	11	9	8
0	4	7	10	11	1	2	3	9	8	6	5
11	3	6	9	10	0	1	2	8	7	5	4
9	1	4	7	8	10	11	0	6	5	3	2
8	0	3	6	7	9	10	11	5	4	2	1
7	11	2	5	6	8	9	10	4	3	1	0
1	5	8	11	0	2	3	4	10	9	7	6
2	6	9	0	1	3	4	5	11	10	8	7
4	8	11	2	3	5	6	7	1	0	10	9
5	9	0	3	4	6	7	8	2	1	11	10

Row 2 Intversion: Center to outer by retrograde 6-213/6-242

4	3	7	6	0	1	9	11	5	8	10	2
5	4	8	7	1	2	10	0	6	9	11	3
1	0	4	3	9	10	6	8	2	5	7	11
2	1	5	4	10	11	7	9	3	6	8	0
8	7	11	10	4	5	1	3	9	0	2	6
7	6	10	9	3	4	0	2	8	11	1	5
11	10	2	1	7	8	4	6	0	3	5	9
9	8	0	11	5	6	2	4	10	1	3	7
3	2	6	5	11	0	8	10	4	7	9	1
0	11	3	2	8	9	5	7	1	4	6	10
10	9	1	0	6	7	3	5	11	2	4	8
6	5	9	8	2	3	11	1	7	10	0	4

Row 2 Intversion: Center to outer 6-213/6-242

3	4	6	7	1	0	11	9	8	5	2	10
2	3	5	6	0	11	10	8	7	4	1	9
0	1	3	4	10	9	8	6	5	2	11	7
11	0	2	3	9	8	7	5	4	1	10	6
5	6	8	9	3	2	1	11	10	7	4	0
6	7	9	10	4	3	2	0	11	8	5	1
7	8	10	11	5	4	3	1	0	9	6	2
9	10	0	1	7	6	5	3	2	11	8	4
10	11	1	2	8	7	6	4	3	0	9	5
1	2	4	5	11	10	9	7	6	3	0	8
4	5	7	8	2	1	0	10	9	6	3	11
8	9	11	0	6	5	4	2	1	10	7	3

TABLES FOR MAIN ROWS

~~TABLES~~

Row 1: 6-1/6-1

MATCH

0	3	1	4	2	5	11	8	10	7	9	6
9	0	10	1	11	2	8	5	7	4	6	3
11	2	0	3	1	4	10	7	9	6	8	5
8	11	9	0	10	1	7	4	6	3	5	2
10	1	11	2	0	3	9	6	8	5	7	4
7	10	8	11	9	0	6	3	5	2	4	1
1	4	2	5	3	6	0	9	11	8	10	7
4	7	5	8	6	9	3	0	2	11	1	10
2	5	3	6	4	7	1	10	0	9	11	8
5	8	6	9	7	10	4	1	3	0	2	11
3	6	4	7	5	8	2	11	1	10	0	9
6	9	7	10	8	11	5	2	4	1	3	0

redundant

Row 2: 6-z47/6-z25

2	8	11	1	6	3	4	7	0	9	5	10
8	2	5	7	0	9	10	1	6	3	11	4
5	11	2	4	9	6	7	10	3	0	8	1
3	9	0	2	7	4	5	8	1	10	6	11
10	4	7	9	2	11	0	3	8	5	1	6
1	7	10	0	5	2	3	6	11	8	4	9
0	6	9	11	4	1	2	5	10	7	3	8
9	3	6	8	1	10	11	2	7	4	0	5
4	10	1	3	8	5	6	9	2	11	7	0
7	1	4	6	11	8	9	0	5	2	10	3
11	5	8	10	3	0	1	4	9	6	2	7
6	0	3	5	10	7	8	11	4	1	9	2

Row 3: 6-z28/6-z49

2	4	8	5	0	11	6	3	9	10	7	1
0	2	6	3	10	9	4	1	7	8	5	11
8	10	2	11	6	5	0	9	3	4	1	7
11	1	5	2	9	8	3	0	6	7	4	10
4	6	10	7	2	1	8	5	11	0	9	3
5	7	11	8	3	2	9	6	0	1	10	4
10	0	4	1	8	7	2	11	5	6	3	9
1	3	7	4	11	10	5	2	8	9	6	0
7	9	1	10	5	4	11	8	2	3	0	6
6	8	0	9	4	3	10	7	1	2	11	5
9	11	3	0	7	6	1	10	4	5	2	8
3	5	9	6	1	0	7	4	10	11	8	2

TABLES FOR MAIN ROWS



Row 1: 6-1/6-1

0	3	1	4	2	5	11	8	10	7	9	6
9	0	10	1	11	2	8	5	7	4	6	3
11	2	0	3	1	4	10	7	9	6	8	5
8	11	9	0	10	1	7	4	6	3	5	2
10	1	11	2	0	3	9	6	8	5	7	4
7	10	8	11	9	0	6	3	5	2	4	1
1	4	2	5	3	6	0	9	11	8	10	7
4	7	5	8	6	9	3	0	2	11	1	10
2	5	3	6	4	7	1	10	0	9	11	8
5	8	6	9	7	10	4	1	3	0	2	11
3	6	4	7	5	8	2	11	1	10	0	9
6	9	7	10	8	11	5	2	4	1	3	0

Redundant

Row 2: 6-z47/6-z25

2	8	11	1	6	3	4	7	0	9	5	10
8	2	5	7	0	9	10	1	6	3	11	4
5	11	2	4	9	6	7	10	3	0	8	1
3	9	0	2	7	4	5	8	1	10	6	11
10	4	7	9	2	11	0	3	8	5	1	6
1	7	10	0	5	2	3	6	11	8	4	9
0	6	9	11	4	1	2	5	10	7	3	8
9	3	6	8	1	10	11	2	7	4	0	5
4	10	1	3	8	5	6	9	2	11	7	0
7	1	4	6	11	8	9	0	5	2	10	3
11	5	8	10	3	0	1	4	9	6	2	7
6	0	3	5	10	7	8	11	4	1	9	2

Row 3: 6-z28/6-z49

2	4	8	5	0	11	6	3	9	10	7	1
0	2	6	3	10	9	4	1	7	8	5	11
8	10	2	11	6	5	0	9	3	4	1	7
11	1	5	2	9	8	3	0	6	7	4	10
4	6	10	7	2	1	8	5	11	0	9	3
5	7	11	8	3	2	9	6	0	1	10	4
10	0	4	1	8	7	2	11	5	6	3	9
1	3	7	4	11	10	5	2	8	9	6	0
7	9	1	10	5	4	11	8	2	3	0	6
6	8	0	9	4	3	10	7	1	2	11	5
9	11	3	0	7	6	1	10	4	5	2	8
3	5	9	6	1	0	7	4	10	11	8	2

ROW 1 6-1/6-1

0	3	1	4	2	5	11	8	10	7	9	6
9	0	10	1	11	2	8	5	7	4	6	3
11	2	0	3	1	4	10	7	9	6	8	5
8	11	9	0	10	1	7	4	6	3	5	2
10	1	11	2	0	3	9	6	8	5	7	4
7	10	8	11	9	0	6	3	5	2	4	1
1	4	2	5	3	6	0	9	11	8	10	7
4	7	5	8	6	9	3	0	2	11	1	10
2	5	3	6	4	7	1	10	0	9	11	8
5	8	6	9	7	10	4	1	3	0	2	11
3	6	4	7	5	8	2	11	1	10	0	9
6	9	7	10	8	11	5	2	4	1	3	0

ROW 2 6-Z47/6-Z28

2	8	11	1	6	3	4	7	0	9	5	10
8	2	5	7	0	9	10	1	6	3	11	4
5	11	2	4	9	6	7	10	3	0	8	1
3	9	0	2	7	4	5	8	1	10	6	11
10	4	7	9	2	11	0	3	8	5	1	6
1	7	10	0	5	2	3	6	11	8	4	9
0	6	9	11	4	1	2	5	10	7	3	8
9	3	6	8	1	10	11	2	7	4	0	5
4	10	1	3	8	5	6	9	2	11	7	0
7	1	4	6	11	8	9	0	5	2	10	3
11	5	8	10	3	0	1	4	9	6	2	7
6	0	3	5	10	7	8	11	4	1	9	2

6-Z47

ROW 3 6-Z28/6-Z49

2	4	8	5	0	11	6	3	9	10	7	1
0	2	6	3	10	9	4	1	7	8	5	11
8	10	2	11	6	5	0	9	3	4	1	7
11	1	5	2	9	8	3	0	6	7	4	10
4	6	10	7	2	1	8	5	11	0	9	3
5	7	11	8	3	2	9	6	0	1	10	4
10	0	4	1	8	7	2	11	5	6	3	9
1	3	7	4	11	10	5	2	8	9	6	0
7	9	1	10	5	4	11	8	2	3	0	6
6	8	0	9	4	3	10	7	1	2	11	5
9	11	3	0	7	6	1	10	4	5	2	8
3	5	9	6	1	0	7	4	10	11	8	2

Successive
 (controversial)

Permutations of pedal w/r prime form of the row

- 1. 2 4 8 5 0 11 6 3 9 10 7 1 (0) (1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11)
- 2. 2 1 4 7 8 10 5 9 0 3 11 6 (0) (1238795103611)

- 1. 2 4 8 5 0 11 6 3 9 10 7 1
- 3. 1 2 7 4 10 8 9 5 3 0 6 11 (49) (013786102511)

- 1. 2 4 8 5 0 11 6 3 9 10 7 1
- 4. 6 11 3 0 9 5 10 8 7 4 1 2 (27) (011108435196)

- 1. 2 4 8 5 0 11 6 3 9 10 7 1
- 5. 11 6 0 3 5 9 8 10 4 7 2 1 (11) (010973426185)

- 1. 2 4 8 5 0 11 6 3 9 10 7 1
- 6. 1 7 10 9 3 6 11 0 5 8 4 2 (011) (110) (29) (38) (47) (56)

2 6 2 6 Contr
 1 11 2 1
 4 3 7 4
 7 0 10 6
 8 9
 10 5

Row 3 - Pedal

Prime form (bar 2)

11^b 9^A 5^b 4^e 1^A 2^A 7^A 10^A 4^A 3^A 6^A 12^A

0 1 2 3 4 5 6 7 8 9 10 11

sons-durees repris des extremes au centre

sons-durees, repris des extremes au centre, par mouvement retrograde

sons-durees, repris du centre aux extremes, par mouvement retrograde

sons-durees, repris du centre aux extremes

sons-durees, repris par mouvement retrograde

Order number permutations (interversions)

Prime: 0 1 2 3 4 5 6 7 8 9 10 11

Outer to center: 0 11 1 10 2 9 3 8 4 7 5 6
 Outer to center by retrograde: 11 0 10 1 9 2 8 3 7 4 6 5
 Center to outer by retrograde: 6 5 7 4 8 3 9 2 10 1 11 0
 Center to outer: 5 6 4 7 3 8 2 9 1 10 0 11

dyad reversal

dyad reversal

Retrograde: 11 10 9 8 7 6 5 4 3 2 1 0

Row 1 (pcs)
 Prime: 0 3 1 4 2 5 11 8 10 7 9 6

Outer to center: 0 6 3 9 1 7 4 10 2 8 5 11

Outer to center by retrograde: 6 0 9 3 7 1 10 4 8 2 11 5

Center to outer by retrograde: 11 5 8 2 10 4 7 1 9 3 6 0

Center to outer: 5 11 2 8 4 10 1 7 3 9 0 6

Retrograde: 6 9 7 10 8 11 5 2 4 1 3 0

Row 2 (pcs): 2 8 11 1 6 3 4 7 0 9 5 10

Outer to center: 2 10 8 5 11 9 1 0 6 7 3 4

Outer to center by retrograde: 10 2 5 8 9 11 0 1 7 6 4 3

Center to outer by retrograde: 4 3 7 6 0 1 9 11 5 8 10 2

Center to outer: 3 4 6 7 1 0 11 9 8 5 2 10

Retrograde: 10 5 9 0 7 4 3 6 1 11 8 2

Row 3 (pcs):

0-C: 2 1 4 7 8 10 5 9 0 3 11 6