

	P ₅												P ₃												P ₂												P ₁												P ₀											
I	1	9	0	2	5	7	A	6	B	3	4	8	7	4	8	3	B	A	6	1	5	2	0	9	B	3	8	4	7	9	0	2	5	8	6	A	4	3	B	6	A	7	5	2	0	9	1													
Tr	0	2	5	7	A	6	B	3	4	8	1	9	0	9	7	4	8	B	A	6	1	5	2	8	4	7	9	0	2	5	1	6	4	B	3	3	B	6	A	7	5	2	0	9	1															
11 A P	5	7	A	6	B	3	4	8	1	9	0	2	5	2	0	9	7	4	8	3	B	A	6	1	7	9	0	2	5	1	6	A	B	3	8	4	B	6	A	7	5	2	0	9	1															
D	A	6	B	3	4	8	1	9	0	2	5	7	6	1	5	2	0	9	7	4	8	3	B	A	0	2	5	1	6	A	B	3	8	B	7	9	6	A	7	5	2	0	9	1																
Fr	B	3	4	8	1	9	0	2	5	7	A	6	B	A	6	1	5	2	0	9	7	4	8	3	5	1	6	A	B	3	8	4	7	6	0	2	A	7	5	2	0	9	1																	
Pr	4	8	1	9	0	2	5	7	A	6	B	3	8	5	B	A	6	1	5	2	0	9	7	4	6	A	B	3	8	4	7	9	0	A	5	1	7	5	2	0	9	1																		
	✓✓																																																											

Index: 0 1 2 3 4 5 6 7 8 9 A B

I	vc	ula	ulu	ulu	I	pf	vb	xyl	ban	ax	cl	ob	Picc
1													
2	5												
3	5												
4	6												

④	R_5	⑤	P_{A^i}	⑥	R_3	⑦	⑧	P_{B^i}	⑨																							
A	7	5	4	8	B	9	1	6	2	5	7	A	0	6	2	1	9	4	8	2	6	9	7	B	4	A	1	9	2	6	7	
7	5	2	8	9	4	1	6	2	5	7	A	0	3	5	8	0	A	7	B	6	7	2	B	4	0	8	A	1	9	2	6	
5	2	0	9	1	8	6	2	5	7	A	0	3	B	4	8	5	3	0	A	7	B	6	4	0	3	5	8	A	1	9	2	6
2	0	9	1	6	9	2	5	7	A	0	3	B	4	7	B	6	2	1	9	B	4	7	0	3	5	3	5	8	A	1	9	
0	9	1	6	2	1	5	7	A	0	3	B	4	8	0	A	7	B	6	2	4	0	B	3	5	8	0	3	5	8	A	1	
9	1	8	2	5	6	7	A	0	3	B	4	8	9	0	9	4	8	5	3	0	3	4	5	8	A	4	0	3	5	8	A	
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

(8)	↓	(9)	(10)	R_{iv}	(11)	P_{vi}	(12)	R_2															
A	1	9	2	6	7	B	B	7	2	6	7	3	0	8	B	8	5	1	3	7	4	2	B
8	A	1	9	2	6	7	2	6	3	1	8	0	B	1	4	6	2	B	A	5	1	0	8
5	8	A	1	9	2	6	3	1	A	8	5	9	A	2	3	7	0	8	4	2	B	9	6
3	5	8	A	1	9	2	A	8	5	9	2	A	5	7	0	5	9	6	1	0	8	3	7
0	3	5	8	A	1	9	5	9	4	0	1	B	4	0	9	2	7	3	9	6	A	5	
4	0	3	5	8	A	1	4	0	B	7	6	4	9	8	A	0	A	5	8	3	7	4	2
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

EXP0
P₅

$28 + 8 = 36$ (12)
 $36 + 9 = 45$ (13)
 $45 + 10 = 55$ (14) + 5 = 60

Unnumbered Symphony: I - intere

EXPD. Transitions

$P_7 \rightarrow \text{Adom 7}$

tumble
 $\text{mod } 4$

[illegible]

2 Retrograde for Brasil

$$\frac{72}{3} = 24 \quad \frac{1}{5} = 4\frac{4}{5}$$

Index:

- 3 Clarinet
- 2 vibraphone
- 1 saxophone
- 1 piano

[illegible]

3 Clarinet
2 vibraphone
1 saxophone
Piano

3 Trump
2 Horn
1 Tromb
2 tuba

strings ^{alphabet}

1. Harmonik
2. Staccato

cube numbers: 1, 8, 27, 64, 125, 216, 343

$$2 \times 13 + 1$$
$$124 + 1$$
$$2 \times 62$$
 12×18 2×171

T-1 $\mathcal{C}$

3 ~~0~~ ~~A~~ (7) 5 2 6 1 9 8 4 B mel ; chord = ~~(ord + 2)~~ × 5
4 1 ~~B~~ (8) 6 3 7 2 A 9 5 ~~0~~

Dolo timbre: R_A^{x1}

	5	2	6	1	9	8	4	8	3	ø	A	7
db	B											
d	A	3	3	3				3	3			3
sax	9	9	9	9				9	9			9
ban	8	ø	ø	ø				ø	ø	ø		ø
hu	7	A	A	A				A	A	A		A
wd	6	8	8	8				8	8	8		8
pt	5	6	6	6				6	6	6		6
wtI	4	4	4	4				4	4	4		4
wtII	3	1	1	1				1	1	1		1
vla	2	2	2	2				2	2	2		2
vc	1	7	7	7				7	7	7		7
cb	ø	B	B	B				B	B	B		B
	5	5	5	5				5	5	5		5

[illegible]

P-therm

[illegible]

EXPO - Closing theme

0	i	7	7	7	7	7	7	7	7	7	7	7	7
1	ii	9	9	9	9	9	9	9	9	9	9	9	9
2	iii	0	0	0	0	0							
3	iv	8	8	8									
4	v	1	1	1	1	1	1	1	1	1	1	1	1
5	vi	5	5	5	5	5	5	5	5	5	5	5	5
6	vii	6	6	6									
7	viii	A	A	A	A								
8	ix	3											
9	x	B	B	B	B	B	B	B	B	B	B	B	B
A	xi	2	2	2	2	2	2	2	2	2	2	2	2
B	xii	4	4	4	4	4	4	4	4	4	4	4	4
		8	6	3	7	2	A	9	5	0	4	1	B

	4	1	B	8	0	7	3	2	A	5	9	G
3	3	3				3	3		3	3	3	
6	6	6				6	6				6	6
8	8	8		8		8	8				8	8
A	A			A		A		A		A	A	
0	0			0	0		0		0		0	
2				2	2		2	2	2			2
B			B	B				B	B			B
5			5	5				5	5	5		
7		7		7	7		7	7	7			
1		1		1	1		1		1			
9		9	9			9	9		9	9	9	
4	4	4	4			4	4		4	4	4	
	3	3	2	3	1	2	3	2	2	2	4	3

Handwritten notes on lined paper:

Left side:

- $\cdot ob = A$
- $\cdot cl = 9$
- $\cdot 2ax = 8$
- $\cdot ban = 7$
- $\cdot hu = 6$
- $\cdot xy = 5$
- $\cdot pf = 4$
- $\cdot vlaI = 3$
- $\cdot vlaII = 2$
- $\cdot vla = 1$
- $\cdot vc = 0$

Right side:

$x_i \quad x_j$

q	7
---	---

Armed Forces

$P_{\text{Thumc}} = \text{L-minor/Major}$

	3	6	6	4	8	1	A	B	0	8	2	0	B	7	5	3	7	2	1	A	9	5	4	9	5	6
mel	B	8	A	3	1	9	B	5	1	A	4	2	4	1	4	6	9	B	4	0	1	7	9	4	2	8
allow	2	A	B	6	5	4	2	7	5	0	7	B	7	9	7	8	1	5	9	2	4	1	1	3	9	A
	4	0	2	8	4	3	4	1	B	2	9	5	9	4	9	A	4	7	1	B	9	9	4	6	5	0
	7	2	4	A	B	6	7	9	2	B	1	7	1	3	1	0	7	1	4	5	1	4	9	8	2	2
	9	B	7	0	2	8	9	4	4	5	5	1	5	0	5	2	9	9	9	7	4	3	1	A	9	B
	P	T	P	T	P	T	P	T	P	T	P	T	P	T	P	T	P	T	P	T	P	T	P	T	P	T
	d		β		γ		δ		ε		ζ		η		θ		ι		κ		λ		μ		ν	
	5		5		5		5		5		5		5		5		5		5		5		6		5	
	2		3		3		4		4		5		5		6		6		7		7		9		6	

$$R_7^i$$

$$P_2^i \text{ or } P_2^i$$

Develop - Retransition

$$\sum = 61$$

$$\uparrow$$

$$[12 \times 5 = 60] + 1$$

$$[12 \times 5 = 60] + 1$$

Target: $\text{Mod} 5(x) = 15$

$\frac{\sum \mu - \sum \gamma}{4} + \frac{\sum \gamma}{4} = 25.5$

$\frac{\sum \mu - \sum \delta}{4} + \frac{\sum \delta}{4} = 22\frac{2}{3} + 2.5$

$\frac{\sum \mu - \sum \epsilon}{4} + \frac{\sum \epsilon}{4} = 19 + 5.25$

$\frac{\mu}{2} + \frac{\sum \lambda - \sum \delta}{3} + \frac{\sum \delta}{4} = 6 + 18\frac{2}{3} + 2.5$

$\frac{1}{1} + \frac{10}{2} + \frac{1}{3} + \frac{\sum \lambda - \sum \delta}{3} + \frac{\sum \delta}{4} = \frac{1}{1} + \frac{10}{2} + \frac{1}{3} + \frac{15 + 5 + \frac{10}{3} + 2.5}{4}$

	d	B	Y	8	E	Z	7	0	L	K	λ	μ	
Σ	1	3	6	10	15	21	28	36	45	55	66	78	Σ
# of patch	1	2	3	4	5	6	7	8	9	10	11	12	# of patch
	(7)	7	7	7	7	7	7	7	7	7	7	7	i 0
								A	A	A	A	A	ii 1
													iii 2
													iv 3
													v 4
													vi 5
													vii 6
													viii 7
													ix 8
													x 9
													xi A
													xii B
	2	2	2	2	2	2	2	2	2	2	2	2	
	B	1	4	0	5	9	A	2	7	3	6	8	Partition
	d	B	Y	8	E	Z	7	0	L	K	λ	μ	

Derived Row: DP_2

DP_2 : 2 7 B 5 3 9 0 A 8 6 4 1

i ii iii iv v vi vii viii ix x xi xii

DI_2 : 2 7 B 5 3 9 0 A 8 6 4 1

↓

1	2	7	B	5	3	9	0	A	8	6	4	1
9	2	6	0	A	4	7	5	3	1	B	8	0
5	A	2	8	6	0	3	1	B	9	7	4	0
B	4	8	2	0	6	9	7	5	3	1	A	0
1	6	A	4	2	8	B	9	7	5	3	0	0
7	0	4	A	8	2	5	3	1	B	9	6	0
4	9	1	7	5	B	2	0	A	8	6	3	0
6	B	3	9	7	1	4	2	0	A	8	5	0
8	1	5	B	9	3	6	4	2	0	A	7	0
A	3	7	1	B	5	8	6	4	2	0	9	0
0	5	9	3	1	7	A	8	6	4	2	B	0
3	8	0	6	4	A	1	B	9	7	5	2	0

PITCH

— = 三 四 五 六 七
 d p y s e z n o l k a m

Timbre Cont.

DI7 7 1 2 B 9 8 3 5 6 0 4 A
 DP8 8 2 1 4 6 7 0 A 9 6 B 3

R5

B xii 5
 A xi 7 7 7 7 7 7
 9 x A A A A A A A
 8 ix 6 6 6 6 6 6
 7 viii B B B B B B B B
 6 vii 3 3 3 3 3 3 3 3
 5 vi 4 4 4 4 4 4
 4 v 8 8 8 8 8 8
 3 iv 1 1 1 1 1 1
 2 iii 9 9 9 9 9 9 9 9
 1 ii 0 0 0 0 0 0 0 0
 0 i 2 2 2 2 2 2

RI5 9 0 3 5 8 A 1 9 2 6 7 B
 G mod 2 0 0 1 1 0 0 1 1 0 0 1 1

→ advance to next timepoint
 4 = 1

d p y s e z n o l k a m

TIMBRE: R5 2 0 9 1 8 4 3 B 6 A 7 5 → timbre

DI7 7 1 2 B 9 8 3 5 6 0 4 A

B xii 5
 A xi 7 7
 9 x A A
 8 ix 6
 7 viii B B
 6 vii 3 3
 5 vi 4
 4 v 8 8
 3 iv 1 1
 2 iii 9 9
 1 ii 0 0
 0 i 2 2

SPA 1 3 0 7 2 4 6 B 8 1 5 9
 mod 3 1 0 0 1 2 1 0 2 2 1 2 0

d p y s e z n o l k a m

TIMEPOINT

0 1 2 3 4 5 6 7 8 9 A B

8. 2. 1. 4. 6. 7. 0. A. 9. 3. B. 5.
 2 8 7 A 0 1 6 4 3 9 5 B
 3 9 8 B 1 2 7 5 4 A 6 0
 0 6 5 8 A B. 4 2 1 7 3 9
 A 4 3 6 8 9. 2 0 B 5 1 7
 9 3 2 5 7 8. 1 B A 4 0 6
 4 A 9 0 2 3. 8 6 5 B 7 1
 6 0 B 2 4 5. A 8 7 1 9 3
 7 1 0 3 5 6 B 9 8 2 A 4
 1 7 6 9 B 0 5 3 2 8 4 A
 5 B A 1 3 4 9 7 6 0 8 2
 B 5 4 7 9 A 3 1 0 6 2 8

CODA - Closing Theme

PS1 R5 = timbre

5 etc
 12 timepoints
 DI7 R5
 DP8 pitch transposition 5 B5

TIMBRE INDEX

B fl
 A do
 9 cl
 8 sax
 7 bar
 6 hr
 5 timp
 4 Trm
 3 Tuba
 2 timp
 1 Glock
 0 pr

ARTICULATION INDEX

3 legato
 2 tenuto
 1 staccato

— = 三 四 五 六 七
 d p y s e z n o l k a m

B xii 5
 A xi 7
 9 x A
 8 ix 6
 7 viii B
 6 vii 3
 5 vi 4
 4 v 8
 3 iv 1
 2 iii 9
 1 ii 0
 0 i 2

DI7 7 1 2 B 9 8 3 5 6 0 4 A

d p y s e z n o l k a m

ARTICULATION