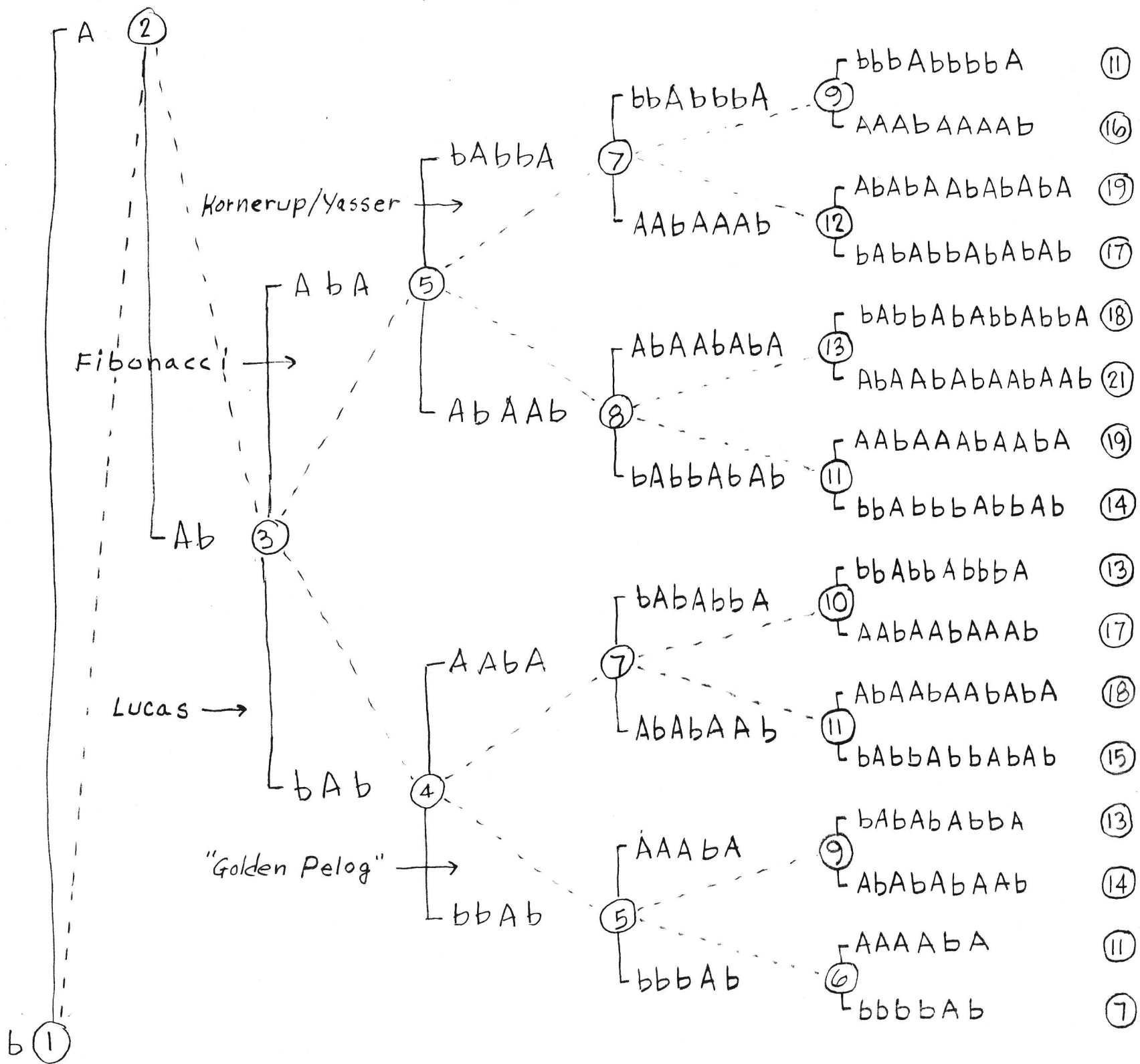


Tree of 2-Interval Chain-Patterns
 (After Fibonacci's Adult/baby Rabbit Sequence)
 © 1991 by Erv Wilson

Ref; Liber Abacci, 1228, Leonardo Fibonacci
Fibonacci & Lucas Numbers, 1969, Verner E. Hoggat, Jr.

4 13	→ AbbbAbbbAbbbb	5 16	→ Abb bbbAbbbbAbbbb	6 19	.3146634874
	← bAAAAbAAAAbAAA		← bAAAAbAAAAbAAA	9 29	.3108928429
3 10	→ AAbAbAAbAbAAbAb	7 23	→ AAbAbAbAAbAbAbAAbAbAb	11 36	.3052136719
	← bBAbAbBAbAbBAbAbA		← bBAbAbBAbAbBAbAbA	10 33	.3034269649
5 17	→ AAbAbAAbAbAAbAb	8 27	→ AbAbbbAbbAbAbbAbbAbbAbb	11 37	.2969861671
	← bBAbAbBAbAbBAbAbA		← bAbAbAAbAbAAbAAbAbAAbA	13 44	.2956859994
5 18	→ AbAbbAbAbbAbAbbAbb	7 25	→ AbbAbbbAbbAbbAbbbAbbb	12 41	.2924129422
	← bAbAAbBAbAAbBAbAAbBAA		← bBbAbBbAbBbAbBbAbBb	9 31	.2907575655
3 11	→ bBAbAbBAbAbBAbAbA	8 29	→ AAbAAbBAbAAbBAbAAbBAb	13 47	.2793156644
	← bBAbAbBAbAbBAbAbA		← bBAbBbAbBbAbBbAbBbAbBb	11 40	.2752667482
4 15	→ AAAbAAAbAAAbAAb	7 26	→ AbAbAbbAbAbAbbAbAbb	10 37	.2699555167
	← bBbAbBbAbBbAbBbA		← bAbAbAAbAbAAbAAbAbA	11 41	.2685568199
3 13	→ AbbAbBbAbBbAbBb	5 19	→ AAAbAAAbAAAbAAAb	9 34	.2643084967
	← bAAbAAbAAbAAbA		← bBbAbBbAbBbAbBbA	6 23	.2616429963
2 9	→ AAbAAbAAbAAb	4 17	→ AbbAbBbAbBbAbBb	5 21	.2371611414
	← bAAbAAbAAbAAb		← bAAbAAbAAbAAbA	7 30	.2338419207
3 14	→ AAbAAbAAbAAb	5 22	→ AAbAbAAbAbAAbAbAAb	8 35	.2282080686
	← bBAbBbAbBbAbBbA		← bBAbAbBbAbBbAbBbA	7 31	.2262534927
2 11	→ bBAbBbAbBbAbBb	5 23	→ AbAbbAbAbbAbAbbAbb	7 32	.2183320912
	← bBAbBbAbBbAbBbA		← bAbAAbBAbAAbBAbAAbBAA	8 37	.2165423647
1 6	→ AAbAAbAAbAAb	4 19	→ AAAbAAAbAAAbAAAb	7 33	.2117026338
	← bBAbBbAbBbAbBbA		← bBbAbBbAbBbAbBbA	5 24	.2090538009
3 11	→ bBAbBbAbBbAbBb	3 16	→ AbbAbBbAbBbAbBb	4 21	.1895234039
	← bBAbBbAbBbAbBbA		← bAAbAAbAAbAAbA	5 27	.1858057070
2 7	→ AAAAAb	3 17	→ AAbAAbAAbAAbAAb	5 28	.1779982111
	← bBbBbBbA		← bBAbBbAbBbAbBbA	4 23	.1747150067
1 7	→ AAAAAb	2 13	→ AbAbAbAbAbAb	3 19	.1566915271
	← bBbBbBbA		← bAbAbAbAbAbAA	3 20	.1511022763
1 8	→ AAAAAb	1 8	→ AAAAAb	2 15	.1312674637
	← bBbBbBbA		← bBbBbBbA	1 9	.1160357457

5	11	→ AbbbbAbbbb	6	13	→ AbbbbAbbbb ← bAAAAA	7	15	.4648779424
4	9	← bAAAAA	9	20	→ AAbAbAbAbAbAbAbAbAbAb ← bAbAbAbAbAbAbAbAbAbAb	11	24	.4591371999
7	16	→ AAbAbAbAbAbAbAbAbAb	11	25	→ AAbAbAbAbAbAbAbAbAbAb ← bAbAbAbAbAbAbAbAbAbAb	14	31	.4511531185
7	16	← bAbAbAbAbAbAbAbAbAb	10	23	→ AAAAAAbAAAbAAAbAAAbAAAb ← bbAbAbAbAbAbAbAbAbAb	13	29	.4487911224
8	19	→ AbAbAbAbAbAbAbAbAbAb	11	26	→ AbAbAbAbAbAbAbAbAbAb ← bAAbAAbAAbAAbAAbAAbAAbAAb	15	34	.4408088840
5	12	← bAbAbAbAbAbAbAbAbAb	13	31	→ AAbAAbAAbAAbAAbAAbAAbAAb ← bAbAbAbAbAbAbAbAbAbAb	18	41	.4392914190
7	17	→ AAAAAAbAAAbAAAbAAAb	12	29	→ AbAbAbAbAbAbAbAbAbAb ← bAbAbAbAbAbAbAbAbAbAb	17	41	.4143783209
7	17	← bAbAbAbAbAbAbAbAbAb	9	22	→ AAAAAAbAAAbAAAbAAAb ← bbAbAbAbAbAbAbAbAbAb	19	46	.4132536612
7	18	→ AbAbAbAbAbAbAbAbAbAb	9	23	→ AbAbAbAbAbAbAbAbAbAb ← bAAbAAbAAbAAbAAbAAbAAbAAb	16	41	.3905169090
5	13	← bAAbAAbAAbAAbAAbAAbAAbAAb	12	31	→ AAbAbAbAbAbAbAbAbAbAb ← bAbAbAbAbAbAbAbAbAbAb	19	49	.3875700505
8	21	→ AAbAbAbAbAbAbAbAbAbAb	13	34	→ AbAbAbAbAbAbAbAbAbAb ← bAbAbAbAbAbAbAbAbAbAb	17	44	.3865860309
8	21	← bAbAbAbAbAbAbAbAbAbAb	11	29	→ AAAAAAbAAAbAAAbAAAbAAAb ← bbAbAbAbAbAbAbAbAbAb	18	47	.3827853835
7	19	→ AbAbAbAbAbAbAbAbAbAb	10	27	→ AbAbAbAbAbAbAbAbAbAb ← bAAbAAbAAbAAbAAbAAbAAbAAb	21	55	.3819660113
4	11	← bAbAbAbAbAbAbAbAbAb	11	30	→ AAbAbAbAbAbAbAbAbAbAb ← bAbAbAbAbAbAbAbAbAbAb	19	50	.3798180192
5	14	→ AAAAAAbAAAbAAAbAAAb	9	25	→ AbAbAbAbAbAbAbAbAbAb ← bAbAbAbAbAbAbAbAbAbAb	14	37	.3786825064
5	14	← bAbAbAbAbAbAbAbAbAb	6	17	→ AAAAAAbAAAbAAAbAAAb ← bbAbAbAbAbAbAbAbAbAb	13	35	.3710869354
						17	46	.3697795447
						18	49	.3671601939
						15	41	.3661068285
						13	36	.3607774410
						14	39	.3592653925
						11	31	.3543583863
						7	20	.3510129520



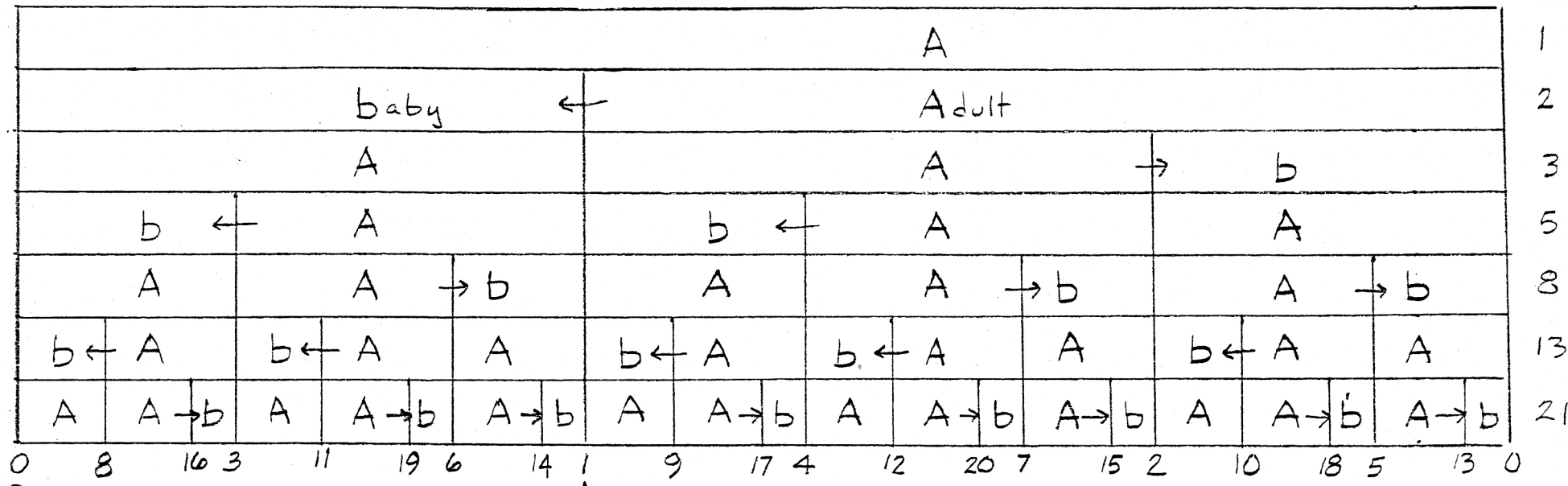
2-Rabbit- Pattern Tree (after Fibonacci)

© 1991 by Erv Wilson

0 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

(b)

(1)



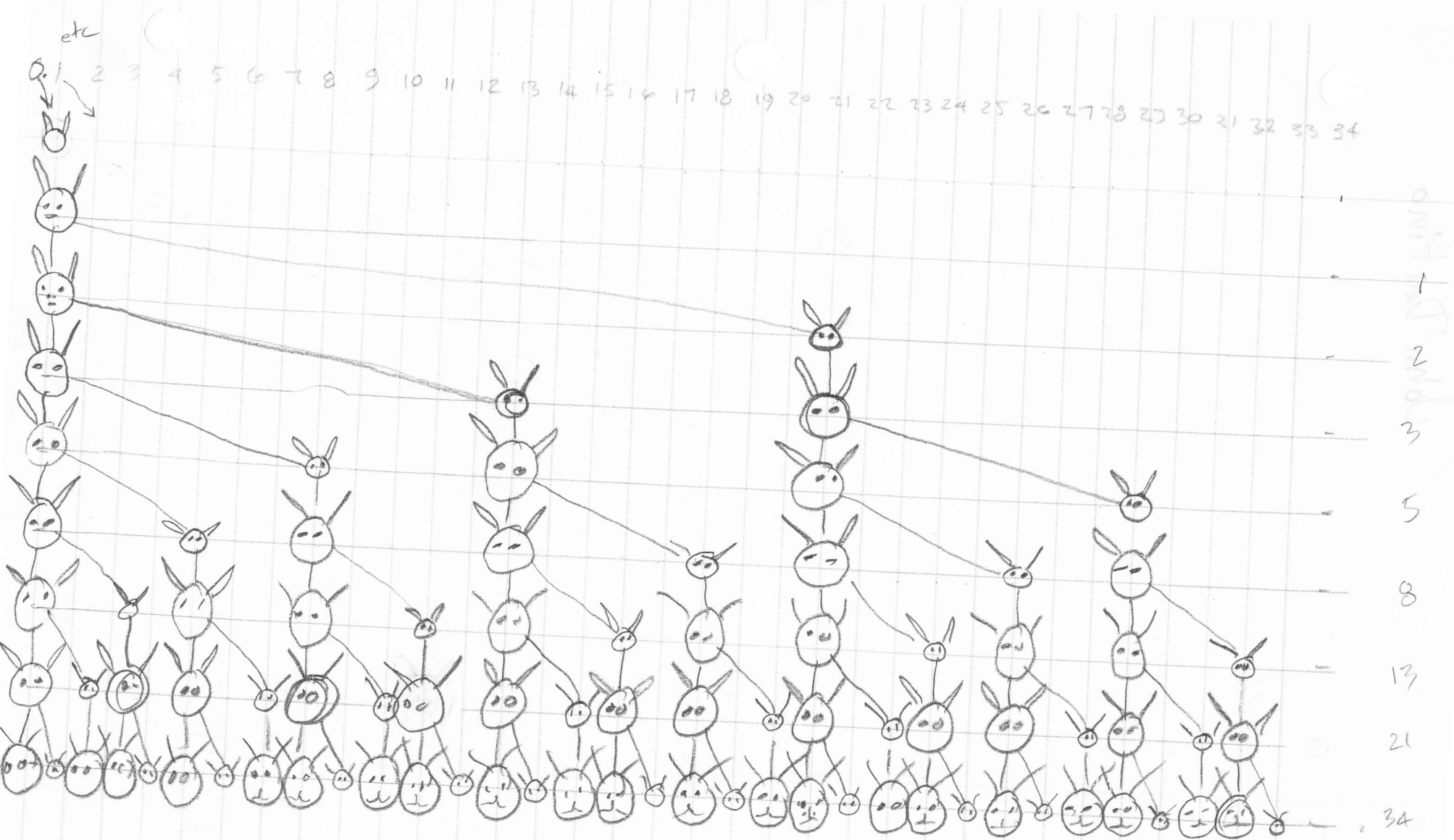
0 (Left alignment)

(Octave)



↑
Generating Interval

The 2-interval Horograms are shown (unrolled) with the generating chains "left-aligned".
 The 2-rabbit pattern is placed in its corresponding position — The baby rabbits take their position, on successive months, alternately on the left and on the right of their Adult parents. (Von Baeyer positions the baby on the right of the adult)

Juxtaposition of the Fibonacci 2-rabbit patterns, with the 2-Interval Horogram
 (12/34 is taken as the generator) © E.W. 1991
 for drafting convenience.



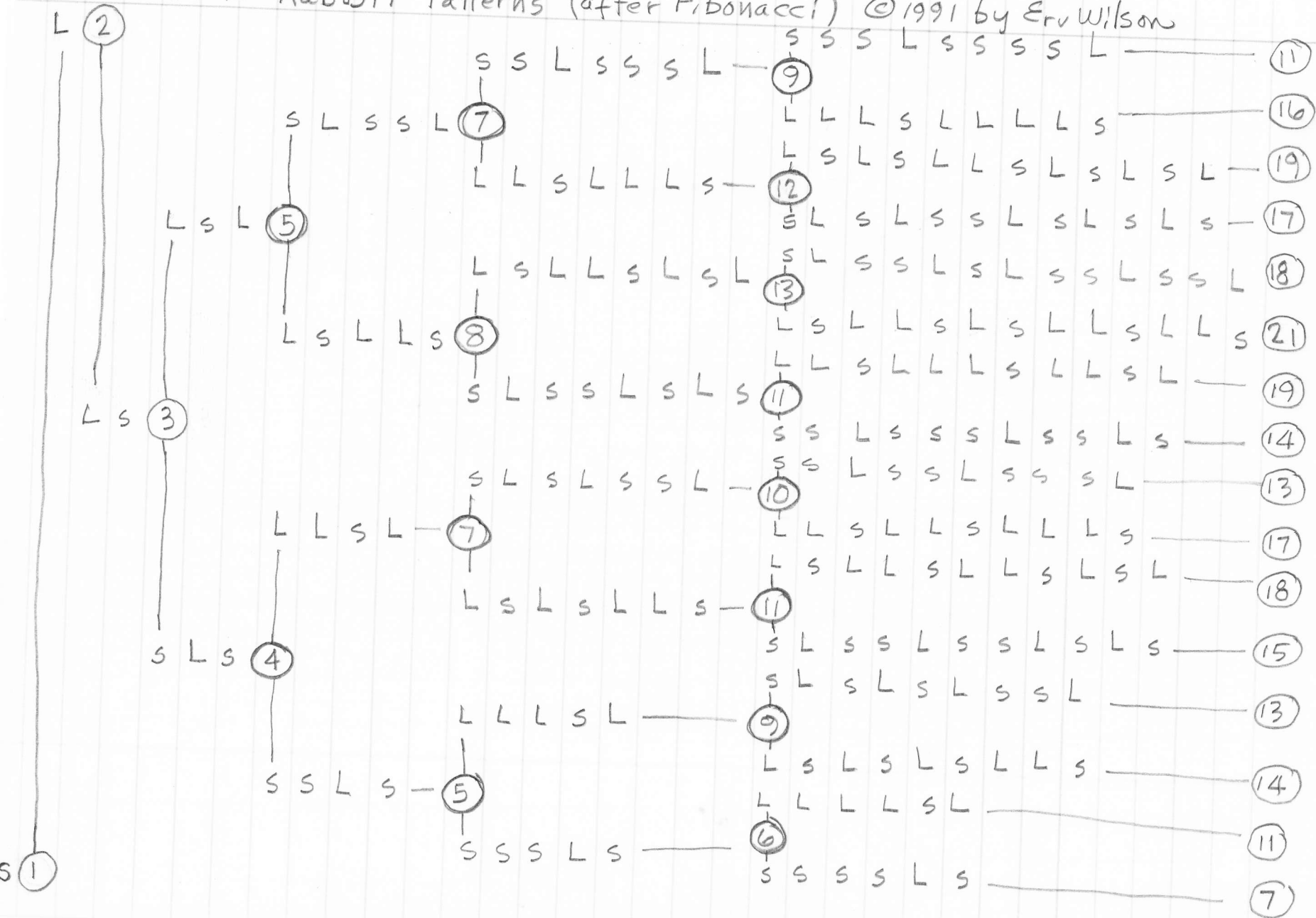
Derivation of the 2-rabbit patterns, (after Fibonacci; ?)

 = baby rabbit (b)
 = Adult rabbit (A)

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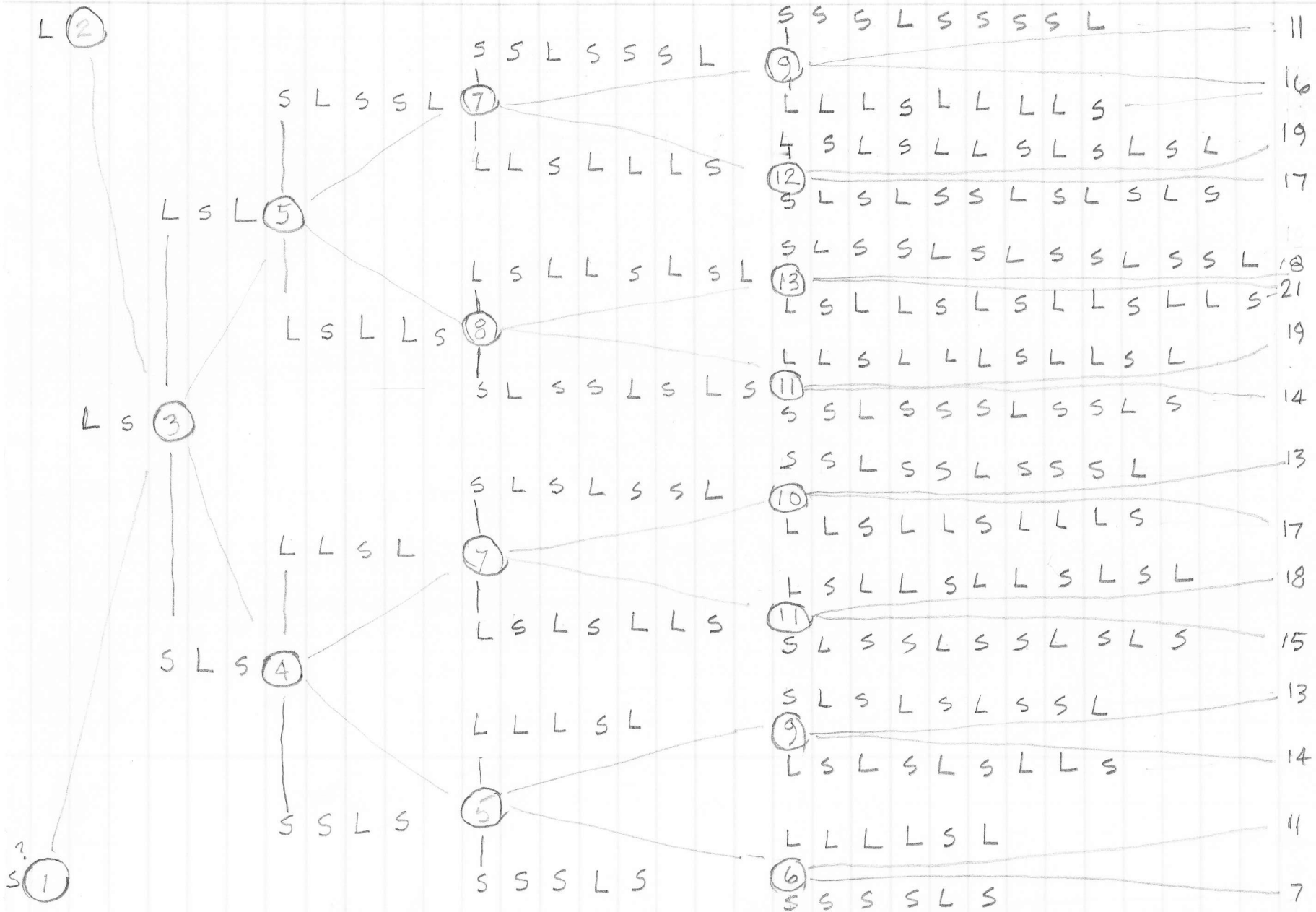
1
2
3
5
8
13
21
34
55
89
144
233

The 2-Rabbit Patterns (after Fibonacci) ©1991 by Erv Wilson



Fibonacci Rabbit Patterns

The Scale/Rhythm Tree © Erv Wilson 1991



5 S S S S L S S S S S L ————— 13
 L L L L S L L L L L S ————— 20
 6 L S L S L S L L S L S L S L S L ————— 25
 S L S L S L S S L S L S L S L S ————— 23
 9 S L S S L S S L S L S S L S S L S S L ————— 26
 L S L L S L L S L S L L S L L S L L S ————— 31
 11 L L S L L S L L L L S L L S L L S ————— 29
 S S L S S L S S S S L S S L S S L ————— 22
 18 S S L S S S L S S L S S S L S S S L ————— 23
 L L S L L L S L L S L L L S L L L S ————— 31
 21 L S L L S L S L L S L L S L S L L S L S L ————— 34
 S L S S L S L S S L S S L S S L S S L S L S ————— 29
 19 S L S L S S L S L S L S S L S L S S L ————— 27
 L S L S L L S L S L S L L S L S L L S ————— 30
 14 L L L S L L L L S L L L S L ————— 25
 S S S L S S S S L S S S L S ————— 17

13 S S S L S S L S S S S L _____ 16

L L L S L L L S L L L L S _____ 23

17 L S L S L L S L S L L S L S L S L _____ 27

S L S L S S L S L S S L S L S L S _____ 24

18 S L S S L S L S S L S L S S L S S L _____ 25

L S L L S L S L L S L S L L S L L S _____ 29

15 L L S L L L S L L L S L L S L _____ 26

S S L S S S L S S S L S S L S _____ 19

13 S S L S S L S S L S S S L _____ 17

L L S L L S L L S L L L S _____ 22

14 L S L L S L L S L L S L S L _____ 23

S L S S L S S L S S L S S L _____ 19

11 S L S L S L S L S S L _____ 16

L S L S L S L S L L S _____ 17

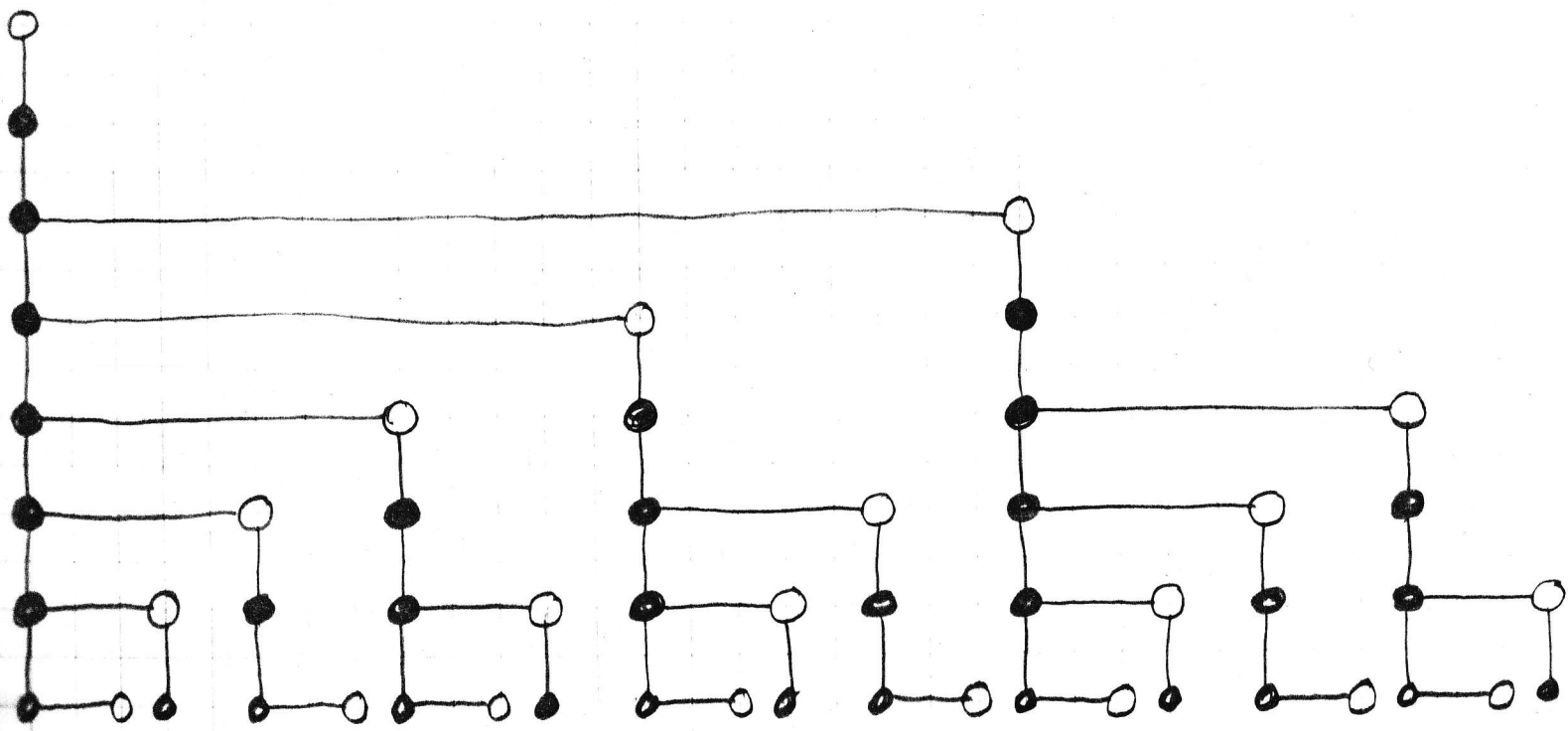
7 L L L L L S L _____ 13

S S S S S L S _____ 8

Notes on Yasser / Kornerup

Eric Wilson 1993

C	(2.618)	F	(1)	G	(2.618)	C
	a				a	
(1.618)		E♭ (1)	(1)	(1.618)	B♭ (1)	
a		b		a	b	
(1.618)	D (1)	(1.618)	(1.618)	(1.618)	A (1)	(1.618)
a	b	a	a	a	b	a
(1.618)	D♭ (1)		F♭		A♭	
a	b	a	b	a	b	a
(1.618)	C# (1)		E		G#	
a	b	a	b	a	b	a
D♭♭	E♭♭♭	E♭♭	F♭♭	G♭♭♭	G♭♭	A♭♭
a	b	a	b	a	b	a
.000000	.061251	.099106	.136962	.160357	.198213	.221609
.037855	.259464	.297319	.320715	.358570	.396425	.419821
.457677	.481072	.518928	.556783	.580179	.618034	.641430
.679285	.717140	.740536	.778391	.801787	.839643	.877498
.900894	.938749	.976604	1.000000			



A	B
0	1
1	0
1	1
2	1
3	2
5	3
8	5
13	8

$\frac{0}{1}$

$\frac{1}{1}$

$\frac{2}{1}$

$\frac{1}{0}$

That such an idiotic procedure would yield such a bonus of epimores is of course tantalizing

$\frac{3}{2}$

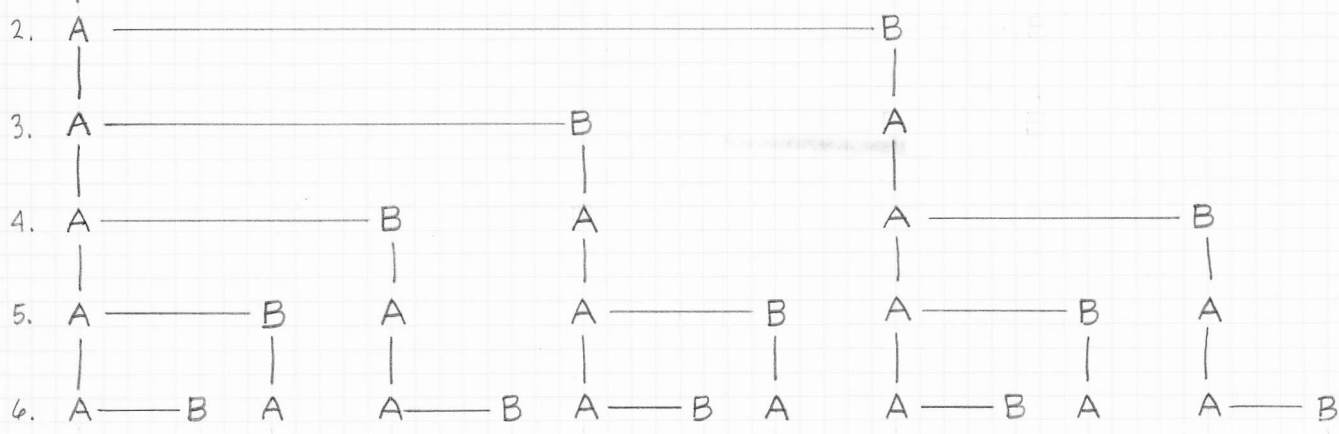
ω/ω

ω/ω

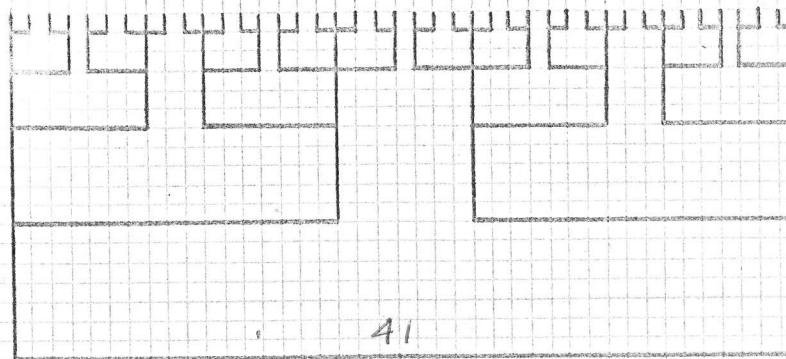
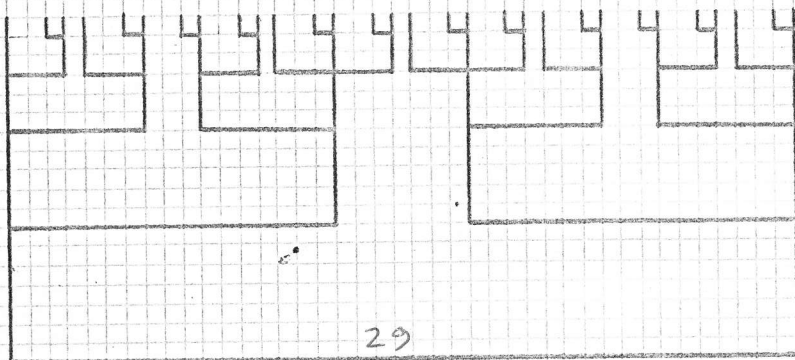
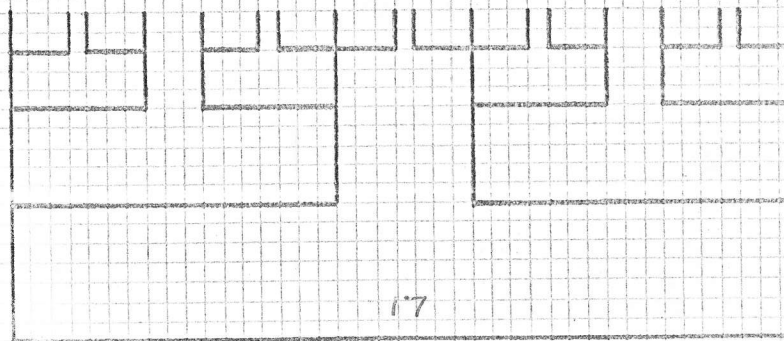
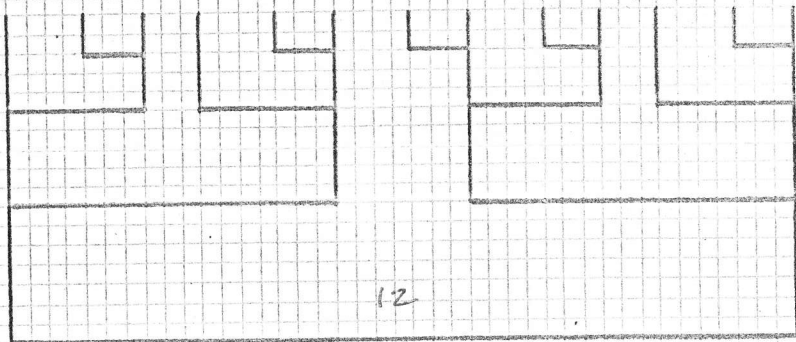
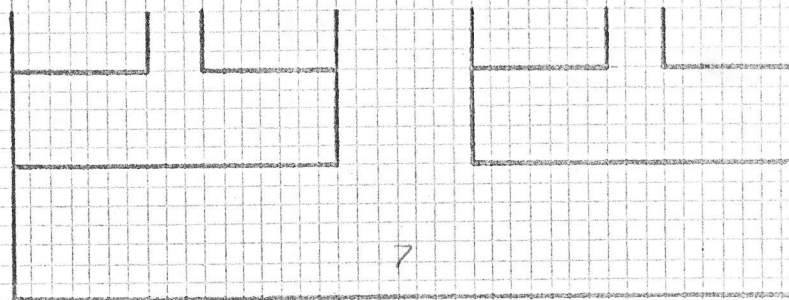
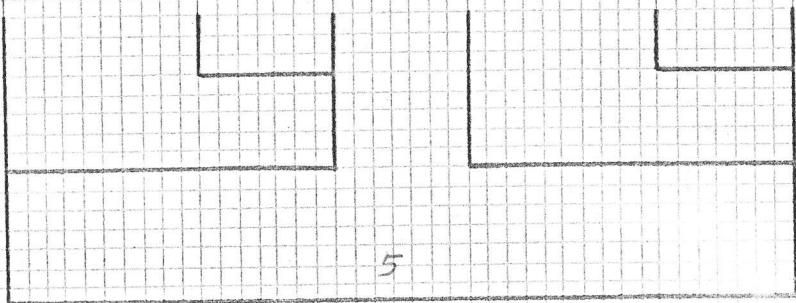
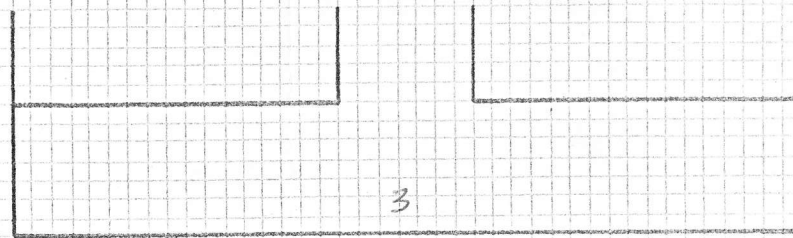
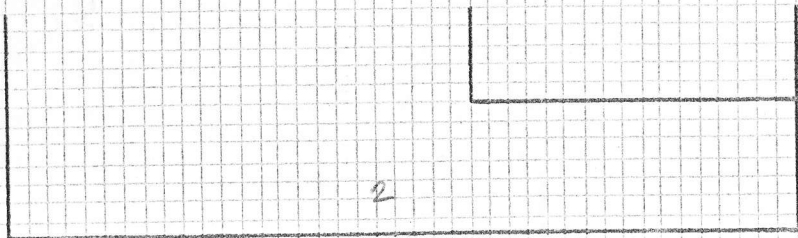
A B I
 $0 + 1 = 1$

0. B
 |
 1. A
 |
 2. A
 |
 3. A
 |
 4. A
 |
 5. A
 |
 6. A

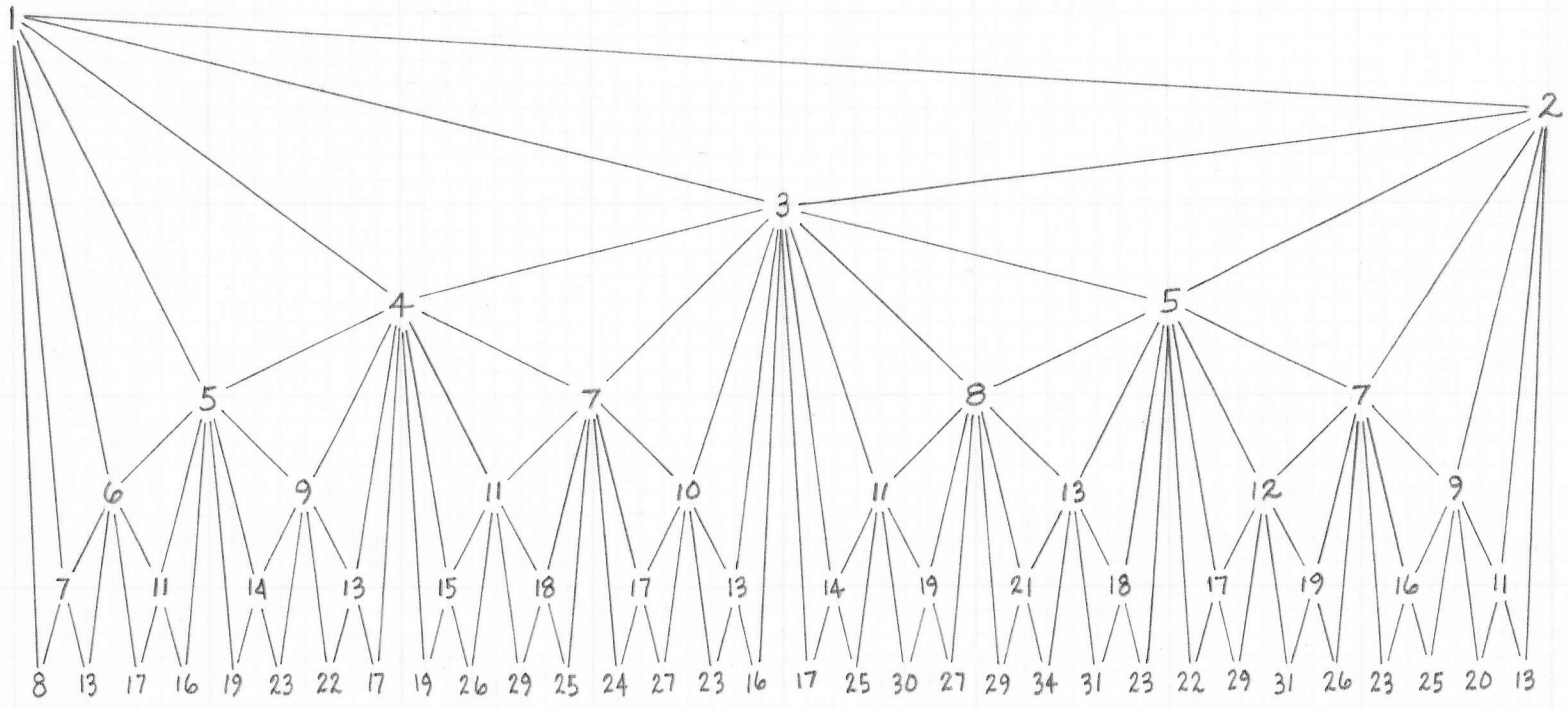
$1 + 0 = 1$
 $1 + 1 = 2$
 $2 + 1 = 3$
 $3 + 2 = 5$
 $5 + 3 = 8$
 $8 + 5 = 13$



Fibonacci



a model of scale evolution
speculative



9 1 2 1 2 2 2 2 2 3 3 3 3 3 3 2
7 0 9 3 8 7 1 4 3 7 2 1 5 0 1

