

Origin 4

VP1[ ]  
V P1 N;OLDCORD;NOTE;STP;TOUT1;TOUT2;TOUT3;TOUT4;CORD;RHY

```
[1] J←0
[2] TEMP←CAPL[30]
[3] TOUT1←TOUT2+64 Res MAX, HAY
[4] TOUT3←96 Res Lox
[5] TOUT4←128 Res Loy
[6] NOTE←1
[7] OLDCORD←2
[8] CORD←1
[9] STP←8
[10] START:→(N=J+J+1)/OUT
[11] OLDCORD←CORD
[12] CORD←(CORD=2)+(CORD=1)×?2
[13] →NEXT
[14] →(OLDCORD=CORD)/NEXT
[15] TOUT1←TOUT2+64
[16] TOUT3←96
[17] NEXT:K←0
[18] NEXT3:→(12<K+K+1)/START
[19] RHY←(K=7)∨K=1
[20] X←?10
[21] →(X>STP)/NEXT2
[22] NOTE←NOTE+3+2×?2
[23] NOTE←NOTE+2×NOTE≤0
[24] NOTE←NOTE-2×NOTE≥10
[25] →END
[26] NEXT2:NOTE←?9
[27] END:TOUT4←TOUT3+32
[28] TOUT3←TOUT2+32
[29] TOUT2←TOUT1
[30] TOUT1←ZZ[CORD;NOTE]
[31] TEMP←TEMP,CAPL[TOUT1,TOUT2,TOUT3,TOUT4]
[32] →NEXT3
[33] OUT:14TEMP
```

Chord  
1  
2

up or dn 1  
9 → 8  
1 → 2  
0 → 2  
10 → 8

ZZ ← voice 28ve

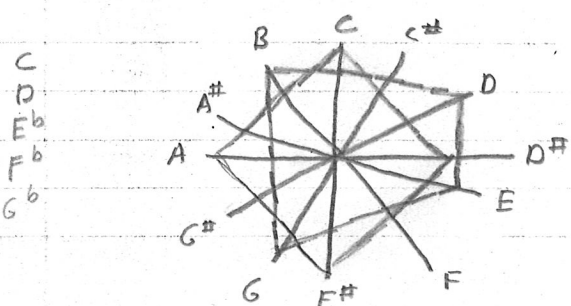
33 36 39 42 49 52 55 58 61  
35 37 40 44 51 53 56 60 53

C D<sup>#</sup> F<sup>#</sup> A C D<sup>#</sup> F<sup>#</sup> A C  
D E G B D E G B E

chord CN1 DSI FSI AN1  
DNI EN1 GN1 BN1

CN2 DS2 FS2 AN2 CN3  
DN2 EN2 GN2 BN2 EN2

|    |     |    |   |    |  |
|----|-----|----|---|----|--|
| 1  | CNI | 17 | 2 | 33 |  |
| 2  | CSI | 18 |   | 34 |  |
| 3  | ONI | 19 |   | 35 |  |
| 4  | DSI | 20 |   | 36 |  |
| 5  | ENI | 21 |   | 37 |  |
| 6  | FSI | 22 |   | 38 |  |
| 7  | ANI | 23 |   | 39 |  |
| 8  | GN1 | 24 |   | 40 |  |
| 9  | BS1 | 25 |   | 41 |  |
| 10 | AN1 | 26 |   | 42 |  |
| 11 | AS1 | 27 |   | 43 |  |
| 12 | BN1 | 28 |   | 44 |  |
| 13 | CNT | 29 |   | 45 |  |
| 14 |     | 30 |   | 46 |  |
| 15 |     | 31 |   | 47 |  |
| 16 | Res | 32 |   | 48 |  |



# A Diminished Seventh Chord Music Synthesis Algorithm

