

Figure 17.1:

PVAA s sequence general form :

$$\begin{array}{cccccccc}
 & c & d & c & d & c & d & \dots \\
 & b & (b+c) & (b+c+d) & (b+2c+d) & (b+2c+2d) & (b+3c+2d) & \dots \\
 a & (a+b) & (a+2b+c) & (a+3b+2c+d) & (a+4b+4c+2d) & (a+5b+6c+4d) & & \dots \\
 0 & 1 & 0 & 1 & 0 & 1 & 0 & \dots
 \end{array}$$

PVA c subsequence, '0' :

$$\begin{array}{cccc} & (2c+2d) & & \dots \\ (2b+c) & & (2b+3c+2d) & \dots \\ a & (a+2b+c) & (a+4b+4c+2d) & \dots \\ 0 & 0 & 0 & \dots \end{array}$$

PVA c subsequence, '1' :

$$\begin{array}{ccccccc}
 & & (2c+2d) & & & & \dots \\
 & (2b+2c+d) & & (2b+4c+3d) & & & \dots \\
 (a+b) & & (a+3b+2c+d) & & (a+5b+6c+4d) & & \dots \\
 & 1 & & 1 & & 1 & \dots
 \end{array}$$

Example:

PVAA s sequence = 0:[10 18 [21 72]]

PVA c subsequence, '0' = 0:[10 (36+21) (42+144)]
= 0:[10 57 186]

PVA c subsequence, '1' = 1:[28 (36+42+72) (42+144)]
= 1:[28 150 186]

Figure 17.2:

```
+++ 36. c SEQ Search, Bottom-Up, PVA, Menu +++
      r SEQ data len: 4096
```

```

-- c SEQ search params --
3610. value = 0
3612. range: p0r p1r p2r = 1 30 50

```

```
-- Misc controls --
3620. search entire space for c SEQS
3622. show c SEQ found
3624. hide c SEQ not found
```

3670. Search r SEQ for PVA c SEQs

Command? 3670

■ ■ ■

```
0 : [1 24 13] : FIRE! [len = 24]
0 : [1 24 16] : FIRE! [len = 22]
0 : [1 24 18] : FIRE! [len = 21] // ok #1
0 : [1 24 19] : FIRE! [len = 21]
0 : [1 24 21] : FIRE! [len = 20]
```

■ ■ ■

```
0 : [1 30 16] : FIRE! [len = 22]
0 : [1 30 18] : FIRE! [len = 21]           // ok #3
0 : [1 30 19] : FIRE! [len = 20]
```

```

----- PVA c SEQ Search Stats -----
number of c SEQ candb (fnd, not fnd) = 606 (286 320)

```

```
+++++++ 36. c SEQ Search, Bottom-Up, PVA, Menu +++++++
      r SEQ data len: 4096
```

```

-- c SEQ search params --
3610. value = 1
3612. range: p0r p1r p2r = 15 45 66

```

```
-- Misc controls --
3620. search entire space for c SEqs
3622. show c SEQ found
3624. hide c SEQ not found
```

3670. Search r SEQ for PVA c SEQs

Command? 3670

■ ■ ■

```
1 : [3 45 15] : FIRE! [len = 21]
1 : [3 45 18] : FIRE! [len = 20]
1 : [3 45 21] : FIRE! [len = 19]
```

```
1 : [4 33 18] : FIRE! [len = 21] // ok #2
```

```
1 : [6 3 6] : FIRE! [len = 37]
1 : [6 3 9] : FIRE! [len = 31]
1 : [6 3 15] : FIRE! [len = 24]
```

■ ■ ■

```
1 : [12 45 15] : FIRE! [len = 21]
1 : [12 45 18] : FIRE! [len = 20]
1 : [12 45 21] : FIRE! [len = 19]
```

```
1 : [13 39 18] : FIRE! [len = 20] // ok #4
```

```
1 : [15 3 6] : FIRE! [len = 37]
1 : [15 3 9] : FIRE! [len = 31]
1 : [15 3 18] : FIRE! [len = 22]
```

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```
----- PVA c SEQ Search Stats -----
number of c SEQ candd (fnd, not fnd) = 3060 (957 2103)
```

```
[1] s 0 : [1 3 [18 -9]]    PVAA s SEQ ; CCA ; '1 1 / A' event
a=1 b=3 c=18 d=-9
> c 0 : [1 (2b+c)=24 (2c+2d)=36-18=18
> c 1 : [(a+b)=4 (2b+2c+d)=6+36-9=33 (2c+2d)=36-18=18]
> c 0 : [1 24 18] ; ok #1
> c 1 : [4 33 18] ; ok #2
```

```
[2] s 0 : [1 12 [6 3]]      PVAA s SEQ ; CCA ; '1 1 / B' event
a=1 b=12 c=6 d=3
> c 0 : [1 (2b+c)=30 (2c+2d)=18
> c 1 : [(a+b)=13 (2b+2c+d)=39 (2c+2d)=18]
> c 0 : [1 30 18] ; ok #3
> c 1 : [13 39 18] ; ok #4
```