whence we conclude that

$$\sum_{r=0}^{n} a_{n,r} = f_n + 2f_{n-1} + f_{n-2}\,. \tag{17}$$

Using the recurrence

$$f_{n+1} = f_n + f_{n-1}\,,$$

the right-hand side of (17) simplifies to f_{n+2}, which is the desired result, q.e.d.

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[This paper was received June 18, 1973; revised August 23, 1973.]

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[Continued from P. 324.]

TABLE 1
Jacobi Symbols: $b = 1$

a	(a/b)	(b/a)	$(a/-b)$	$(-b/a)$
−7	1	1	−1	1
−5	1	1	−1	−1
−3	1	1	−1	1
−1	1	1	−1	−1
1	1	1	1	1
3	1	1	1	−1
5	1	1	1	1
7	1	1	1	−1

TABLE 2
Jacobi Symbols: $b = 3$

a	(a/b)	(b/a)	$(a/-b)$	$(-b/a)$
−7	−1	−1	1	−1
−5	1	−1	−1	1
−3	0	0	0	0
−1	−1	1	1	−1
1	1	1	1	1
3	0	0	0	0
5	−1	−1	−1	−1
7	1	−1	1	1

[Continued on P. 330.]