

*Proof.*

$$C_m = C_{2^e} \times C_{p_1 e_1} \times \dots \times C_{p_n e_n} A(C_m) = A(C_{2^e}) \times A(C_{p_1 e_1}) \times \dots \times A(C_{p_n e_n})$$

$$A(C_{2^e}) = \begin{cases} (1) & \text{if } e = 0 \text{ or } 1 \\ C_2 & \text{if } e = 2 \\ C_2^{e-2} \times C_2 & \text{if } e \geq 3. \end{cases}$$

#### REFERENCE

1. H. S. Sun, "A Group-Theoretical Proof of a Theorem in Elementary Number Theory," *The Fibonacci Quarterly*, Vol. 11, No. 2 (April 1973), pp. 161–162.

[Continued from P. 328.]

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TABLE 3  
Jacobi Symbols:  $b = 5$

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

TABLE 4  
Jacobi Symbols:  $b = 7$

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

Then

$$\left( \frac{(a/-1)}{(b/-1)} \right) = 1$$

if and only if  $a$  is positive and/or  $b$  is positive; and

[Continued on P. 333.]