

41: 7 5.	. . -1 -3 .	-8	46: 7 5.	3	1. .	.	-8
42: 7 5.	1. . -3 .	-8	47: 8	.	. .	.	-8
43: 7 5.	2 . . -3 .	-8	48: 8	.	. 0.	.	-8
44: 7 5.	2 . 0. -3 .	-8	49: 8	.	1. . -2	.	-8
45: 7 5. 3 . . -1	.	-8	50: 8	.	2 . . -2	.	-8



[Continued from page 364.]

Example:  $F_5 = 5$  and  $2 \cdot 3 \cdot 7 \cdot 18 \cdot 47 = 35,532 \equiv 2 \pmod{5}$ .

The congruence is reminiscent of the congruences of Wilson and Fermat.

It is expected that many other interesting and novel consequences follow from the extended Hermite theorems (6.2) and (7.1) giving arithmetic information about Fibonacci, Lucas and other similar numbers.

#### REFERENCES

1. W. G. Brown, "Historical Note on a Recurrent Combinatorial Problem," Amer. Math. Monthly, 72(1965), 973-977.
2. L. E. Dickson, History of the Theory of Numbers, Vol. 1, Carnegie Institute, Washington, D. C., 1919. Reprinted by Chelsea Publ. Co., New York, 1952.
3. C. Hermite and T. J. Stieltjes, Correspondence d'Hermite et de Stieltjes, Gauthier-Villars, Paris, Vol. 1, 1905.
4. Henry B. Mann and Daniel Shanks, "A Necessary and Sufficient Condition for Primality, and its Source," J. Combinatorial Theory, Part A, Vol. 13 (1972), 131-134.
5. G. Ricci, Sui coefficienti binomiali e polinomiali. Una dimostrazione del teorema di Staudt-Clausen sui numeri di Bernoulli, Gior. Mat. Battaglini, 69(1931), 9-12.
6. Problem 4252, Amer. Math. Monthly, 54(1947), 286; 56(1949), 42-43.
7. V. E. Hoggatt, Jr., "Fibonacci Numbers and Generalized Binomial Coefficients," Fibonacci Quarterly, 5(1967), 383-400.
8. H. W. Gould, "The Bracket Function and Fonténe-Ward Generalized Binomial Coefficients with Application to Fibonomial Coefficients," Fibonacci Quarterly, 7(1969), 23-40, 55.
9. Glenn N. Michael, "A New Proof for an Old Property," Fibonacci Quarterly, 2(1964), 57-58.
10. Brother Alfred Brousseau, "A Sequence of Power Formulas," Fibonacci Quarterly, 6(1968), No. 1, 81-83.
11. Problem H-63, Fibonacci Quarterly, 3(1965), 116; solution by Douglas Lind, ibid., 5(1967), 73-74.

