$$
\mathrm{H}_{\mathrm{n}+1}^{\prime}=\sum_{\mathrm{k}=0}^{\mathrm{n}} \mathrm{H}_{\mathrm{k}} 2^{\mathrm{n}-\mathrm{k}}=\mathrm{H}_{\mathrm{n}}+2 \mathrm{H}_{\mathrm{n}}^{\prime}=2^{\mathrm{n}+1} \mathrm{H}_{2}-2 \mathrm{H}_{\mathrm{n}+2}+\mathrm{H}_{\mathrm{n}}=2^{\mathrm{n}+1} \mathrm{H}_{2}-H_{\mathrm{n}+3}
$$

Thus (A) holds for all $\mathrm{n} \geq 1$. To obtain the identities given by Carlitz, we note that $\mathrm{F}_{2}=1, \mathrm{~L}_{2}=3$.
Also solved by Herta T. Freitag, D. V. Jaiswal (India), Bruce W. King, C.B.A. Peck, A. C. Shannon (Australia), David Zeitlin, and the proposer.

## ERRATA

Please make the following correction in the October Elementary Problems and Solutions: In the third equation from the bottom, on p. 292, delete

$$
\frac{F_{2 k}}{F_{2 k+2}}<\frac{F_{2 k}}{F_{2 k+1}}<\frac{F_{2 k \div 1}}{F_{2 k}}<\frac{F_{2 k-1}}{F_{2 k}}
$$

and add, instead,

$$
\frac{F_{2 k}}{F_{2 k+2}}<\frac{F_{2 k+2}}{F_{2 k+3}}<\frac{F_{2 k+1}}{F_{2 k+2}}<\frac{F_{2 k-1}}{F_{2 k}}
$$

[Continued from p. 334.]
Hence, by (13), p | $\mathrm{D}_{2 \mathrm{n}}$
In each case we have found a reduced arithmetic progression no prime member of which is a factor of a certain $D_{2 n}$. Hence, by Lemma 1, II), there is an infinitude of composite $D_{2 n+1}$.

## REFERENCES

1. R. D. Carmichael, "On the Numerical Factors of the Arithmetic Forms $\alpha^{\mathrm{n}} \pm \beta^{\mathrm{n}}, "$ Annals of Mathematics, 15 (1913-1914), pp. 30-70.
2. W. J. LeVeque, Topics in Number Theory, I (1958).
