Hence,

$$
\begin{equation*}
g_{m}(x)=\frac{(1-x) \sum_{k=1}^{m-1} \sum_{n=1}^{k-1}(-1)^{k+1}\binom{m-1}{k} R_{m,-n} x^{k-n-1}+u_{2}^{m-1}}{(1-x)^{m}}, m \geqslant 2 \tag{4.4}
\end{equation*}
$$

For special sequences

$$
\left\{u_{n}\right\}_{n=1}^{\infty}
$$

with $u_{1}=1$, the polynomial in the numerator of $g_{m}(x), m \geqslant 1$, is predictable from the convolution array of the sequence. This matter will be covered by the authors in another paper which will appear in the very near future.

## REFERENCES

1. V.E. Hoggatt, Jr., and Marjorie Bicknell, "Convolution Triangles for Generalized Fibonacci Numbers," The Fibonacci Quarterly, Vol. 8, No. 2 (April 1970), pp. 158-171.
2. V.E. Hoggatt, Jr., and Marjorie Bicknell, "Convolution Triangles," The Fibonacci Quarterly, Vol. 10, No. 6 (December 1972), pp. 599-609.
3. Charles Jordan, Calculus of Finite Differences, Chelsea Publishing C.o., 1947, pp. 131-132.
4. John Riordan, Combinatorial Identities, John Wiley and Sons, Inc., 1968, pp. 188-191.
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## LETTER TO THE EDITOR

February 20, 1975
Dear Mr. Hoggatt:
I'm afraid there was an error in the February issue of The Fibonacci Quarterly. Mr. Shallit's proof that phi is irrational is correct up to the point where he claims that $1 / \phi$ can't be an integer. He has no basis for making that claim, as $\phi$ was defined as a rational number, not an integer.
The proof can, however, be salvaged after the point where $p$ is shown to equal 1 . Going back to the equation $p^{2}-p q=q^{2}$, we can add $p q$ to each side, and factor out a $q$ from the right: $p^{2}=q(q+p)$. Using analysis similar to Mr. Shallit's, we find that $q$ must also equal 1. Therefore, $\phi=p / q=1 / 1=1$. However, $\phi^{2}-\phi-1=-1 \neq 0$; thus, our assumption was false, and $\phi$ is irrational.

Sincerely,
s/David Ross, Student,
Swarthmore College

