In a forthcoming paper on the topic (viz. [4]), an alternative (and more rigorous) approach is presented for the general solution of the problem proposed in this paper, under appropriate restrictions of analyticity for functions $f$ and $g$.

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## 为

[Continued from p. 268.]

$$
\left.T_{i-3}=\sum_{m=0}^{\left[\frac{i-3}{2}\right]} \sum_{r=0}\left(\begin{array}{c}
i-m \\
m+2 \\
m+3
\end{array}\right)\binom{m+r}{r}=\frac{\left[\frac{i+1}{2}\right]}{\sum_{m=2}} \sum_{r=1}^{\frac{i-1}{3}}\right]\left[\begin{array}{c}
i-m-2 r-1 \\
m+r-1
\end{array}\right)\binom{m+r-1}{r-1} .
$$

Now,

$$
T_{i}=T_{i-1}+T_{i-2}+T_{i-3}=\sum_{m=0}^{[i / 2]} \sum_{r=0}^{[i / 3]}\binom{i-m-2 r}{m+r}\binom{m+r}{r}
$$

(from lemma) which is what we required.
Fairly clearly when we are in the plane $r=0$, we have the ordinary Fibonacci numbers. Further investigations suggest themselves along the lines of Hoggatt [3] and Horner [4].

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