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619 Greythorne Road
Wynnewood, Pa. 19096
April 22, 1975

(S)
N. J. A. Sloane
Bell Laboratories 2C-363
600 Mountain Avenue
Murray Hill, New Jersey 07974

Dear Mr. Sloane:

I am enclosing a copy of my manuscript of a paper I have written, entitled, "An Interesting Continued Fraction". This paper will appear in the September, 1975 issue of Mathematics Magazine. Since this paper contains several sequences not in your book or the supplement, I thought the new sequences would be a useful addition.

The sequences, along with their general terms, etc., are on the enclosed sheets.

I am still working on some of the sequences you suggested, and will send the results as I get them. I've learned a lot of mathematics just from programming the various sequences in your book!

Sincerely yours,
Jeffrey Shallit
Jeffrey Shallit

May 5, 1975

Jeffrey Shallit
619 Greythorne Road
Wynnewood, Pennsylvania 19096

Dear Jeffrey:

Thank you very much for your letter of April 22, 1975 and the lovely new sequences. The sequence ... 4, 14, 52, 194, ... I prefer to write as

2, 4, 14, 52, 194, ...

for if you extend it backwards it becomes

...52, 14, 4, 2, 4, 14, 52, ...,

which satisfies $a_{n+1} = 4a_n - a_{n-1}$ for all n . Similarly for two others. They have all gone into the supplement. Of course I will send you a copy when it is fit to be seen.

I liked your paper on continued fractions.

Best regards,

MH-1216-NJAS-mv

N. J. A. Sloane