

extend

[DA4]

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Done  
Dead  
7/8/14

UNIVERSITY OF READING

~~David E. Daykin~~  
7/8/14

Department of Mathematics,  
Whiteknights,  
Reading,  
Berkshire, U.K.

14th December, 1973

Mr. Neil J. A. Sloane,  
Bell Telephone Laboratories,  
Murray Hill,  
New Jersey,  
U.S.A.

Dear Mr. Sloane,

I was told of your handbook by Dr. D. A. Klarner. Please could you kindly tell me whether the following sequences are in it:-

$$u_n = 0 \ 0 \ 0 \ 0 \ 1 \ 4 \ 11 \ 28 \ 67 \ 152 \ 335$$

satisfying

$$u_n = 4u_{n-1} - 5u_{n-2} + 4u_{n-3} - 6u_{n-4} + 4u_{n-5}.$$

It seems to depend on the sequence

$$d_n = 0 \ 0 \ 0 \ 0 \ 1 \ 1 \ 1 \ 3 \ 5 \ 7 \ 13 \ 23 \ 37 \ 63 \ 109 \ 183$$

satisfying

$$d_n = d_{n-1} + 2d_{n-3}$$

where

$$d_n = u_n - 3u_{n-1} + 2u_{n-2}.$$

I send you my very best wishes.

Yours sincerely,

David E. Daykin

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