

2572

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IN REPLY  
REFER TO: C-6

July 20, 1971

Dr. Neil J. A. Sloane  
Bell Telephone Laboratories  
Murray Hill, New Jersey 07971

Dear Neil,

Your sequence 2572 corresponds, as far as it goes, to a sequence I calculated (unpublished) for D. Hawkins in 1961. I do not have access to your reference, so that I cannot tell whether the sequences are trivially the same. What I calculated was the number  $W(k)$  of partitions of unity into exactly  $k$  powers of  $\frac{1}{2}$ . I enclose a table of values through  $k=127$ . As I recall, the calculation was effected by means of a complicated recurrence (I can't find my derivation at the moment).

Best regards,

Paul R. Stein

PRS:mm

Enc. a/s