A6455 N Hindman NJAS Consportona 1981-1991 Ly gages

6455 7/80/81 Dear In. Slowe, some time ago that you had expressed some interest in the following segmence: NBH P(1)=1 P(2)=Z P(3) = 7P(4)=40 P(5)=357 P(6)=4824 P(7)=96428 P(8)=2800472 P (9) = 116473461 Here P(n) is the number of partial orderings on in which are contained in the usual linear ordering on A. (That is $xRy \Rightarrow x \neq y$.) (Also, $\hat{o} = \emptyset$ and for $n \geq 1$, $\hat{n} = \{1, 2, ..., n\}$.)

I have a relatively efficient algorithm for computing theel numbers. In narticular, the numbers up through 7 were originally obtained via hund

computation It this point it reems unlikely that I will try to publish these resulte, since the theorems needed to justify the recursion are messy to prove and, beyond the algorithm for computation, I do not get any mie cymer or lover brude. in a description of the justifying theorems I will be happy to send them to you. Sincerely, Mary fundamen



AT&T Bell Laboratories

600 Mountain Avenue Murray Hill, NJ 07974-2070 908-582-3000

June 26, 1991

Professor Neil Hindman Mathematics Department Howard University Washington, DC 20059

My Ref. A6455

Dear Neil:

I would like to include the enclosed sequence in the second edition of my Sequence book—is there a reference?

Best regards,

N. J. A. Sloane

Encl.



600 Mountain Avenue Murray Hill, New Jersey 07974 Phone (201) 582-3000

August 4, 1981

Professor Neil Hindman Mathematics Department Howard University Washington, D.C. 20059

Dear Neil:

Many thanks for the sequence, which I will put into the second edition (long delayed) $_{*\mathcal{I}'}$

Yours sincerely,

MH-11216-NJAS-mv

N. J. A. Sloane