Dear Dr. Sloane,

I am writing with regard to your useful book on integer series. Sequence 1798 refers to the number of nxn nonsingular matrices over $\mathbb{Z}_2$ is given with reference to an article in JSIAM 20 3777 (1971). While the series as given (correctly) in the book is as listed there it should be noted that this is, of course, simply the number of ordered bases of the n-dimensional vector space over $\mathbb{Z}_2$. This is well known to be $(2^n-1)(2^n-2)\ldots(2^n-2^{n-1})$. Thus more terms could be given and perhaps another reference might be more appropriate. If you wanted more sequences you could fabricate some from similar considerations over $GL(n,F)$ where F is the field with q elements yielding $(q^n-1)\ldots(q^n-q^{n-1})$ perhaps divided by some power of $(q-1)$ to normalize. The relation to Gaussian binomial coefficients is clear.

Have there been supplements since the publication of the book?

If so I would be interested in obtaining a copy.

Aaron Meyerowitz
July 31, 1979

Dr. A. Meyerowitz  
Department of Mathematics  
Colorado State University  
Fort Collins, Colorado 80523

Dear Dr. Meyerowitz:

Thank you very much for writing to me about sequence 1798. Of course you are absolutely correct, and I should have noticed that myself. A copy of Supplement I is enclosed. This is the only one so far, although another is long overdue. Also a couple of other things that may interest you.

Thank you again for writing,

Yours sincerely,

MH-1216-NJAS-dh

Enclosure

N.J.A. Sloane