

Scan AS132

Bernardo Recamán

&

NJAS

Correspondence 1991

3 pages + envelope!

(One sequence)

A5132  
Bogotá, 29<sup>th</sup> January, 1991

RE6

Doctor Neil J. A. Sloane,  
Mathematical Sciences Research Centre,  
AT&T Bell Laboratories,  
Murray Hill, New Jersey 07974  
U. S. A.

Dear Dr. Sloane,

I have over 70 years come across a number of your papers which I have glanced with great interest. Unfortunately I can't easily obtain copies of these here and so I am writing to request reprints. I am particularly interested on those on additive bases and harmonious graphs, but in general I am interested in all of number theory and combinatorics. I would be most grateful for any material you are able to send me.

Yours sincerely,

Bernardo Recamán  
Cra. 7 No 84 - 49  
Bogotá, Colombia South America

P.T.O.

where does the following sequence come from:

1, 3, 6, 2, 7, 13, 20, 12, 21, 11, 22, 10, ...

Answer:

$$F(1) = 1 \text{ and for } n > 1 \quad F(n) = F(n-1) - n$$

unless  $F(n-1) - n$  is negative or a term already in the sequence, in which cases  $F(n) = F(n-1) +$

- Does every positive integer belong to the sequence.
- Does it have infinitely many repeated terms.

Note.

$$F(15) = F(24) = 42 \text{ is the first repetition.}$$

A5132



AT&T Bell Laboratories

600 Mountain Avenue  
P.O. Box 636  
Murray Hill, NJ 07974-0636  
908-582-3000

May 3, 1991

Dr. Bernardo Recamán  
Cra. 7 No. 84-49  
Bogotá, Colombia  
SOUTH AMERICA

Dear Dr. Recamán:

I just came across your letter of January 29 in a pile of new material for the second edition of my book. I apologize for not writing sooner!

Did I send you the papers you asked for? If not, let me know and I will send them now.

I like your sequence 1, 3, 6, 2, 7, etc., very much!

Yours sincerely,

N. J. A. Sloane

Bernardo Recamañ,  
Waterford Kamhlaba  
United World College,  
Box 52, Mbabane,  
Swaziland, Africa

A 5132  
Mbabane, 17<sup>th</sup> November, 1991

Agly

Dr. N. J. A. Sloane,  
AT and T Laboratories,  
Murray Hill, N.J.  
U.S.A.

Dear Dr. Sloane,

Your letter of 3rd May, 1991 has finally reached me here in Swaziland where I moved from Colombia nearly six months ago. From Colombia I had written to you requesting a selection of some of <sup>your</sup> more recent papers and suggesting a sequence ( 1, 3, 6, 2, 7... ). I didn't bring my little book of sequences with me <sup>and</sup> ~~so~~ I don't remember what it is about but I am glad you liked it.

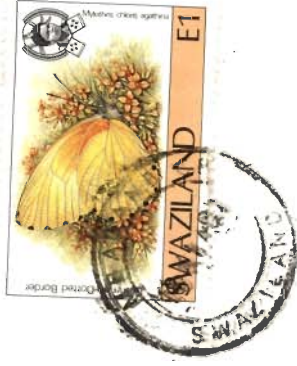
As for <sup>the</sup> papers, I haven't received <sup>them</sup> and I am still interested.

I look forward to the new edition of your book.

Yours, 



B. Recaman  
Waterford Kamhlaba  
United World College  
Box 52  
Mbabane,  
Swaziland,  
Africa.



Dr. N. J. A. Sloane

A T and T Bell Laboratories,  
600 Mountain Avenue,

Murray Hill, NJ 07974-2670

U. S. A.