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Received: by ninet.research.att.com; Fri Jun 17 05:09 EDT 1994
Received: from hera.math.uni.wroc.pl by sun1000.ci.pwr.wroc.pl (5.0/SMI-SVR4)
id AA18833; Fri, 17 Jun 1994 11:07:46 --100
Received: by hera.math.uni.wroc.pl (5.0/SMI-SVR4)
id AA09057; Fri, 17 Jun 1994 11:07:12 --100
From: jwr@math.uni.wroc.pl (Jaroslaw Wroblewski)
Message-Id: <9406170907.AA09057@hera.math.uni.wroc.pl>
Subject: Pisot sequence
To: njas@research.att.com
Date: Fri, 17 Jun 1994 11:07:11 +0200 (MET DST)
Cc: jwr@math.uni.wroc.pl (Jaroslaw Wroblewski)
X-Mailer: ELM [version 2.4 PL23]
Mime-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: 7bit
Content-Length: 450
Status: RO

Dear Professor Sloane,

The example I always give is the one starting from 10, 219 which satisfies a 4-th order recurrence for 1402 terms.

I suspect that you can have an example with recurrence holding for finite, but arbitrarily long time starting from 10 and $19+100n$ for sufficiently large n . I know that for $n=0$ it holds forever and for $n=1$ for a few hundred terms.

Yours sincerely,
Jaroslaw Wroblewski