

Review, July 1992

**The Smarandache Function:  
a first visit? <sup>2</sup>**

This topic is certain to be revisited in the near future, and the lack of space available here will certainly be remedied on that occasion. Suffice it to report that Jim Duncan computed up to  $S(1499999)$ , the first million taking 50 hours in Lattice C on an Atari 1040ST. In Problem (ii), no evidence for a largest value of  $x$  was found, while in Problem (vii) the conjecture was verified for the first 32,000 values of  $S(n)$ . The very worthy prizewinner is John McCarthy of 17 Mount Street, Mansfield, Notts NG19 7AT, who has extensively *investigated* the computation of  $S(n)$  up to  $2^{32}$ ; arriving at conclusions such as: 'several years of computing', 'at least 12Gb of disk space' and '3,303,302 pages of output'. John's concluding comment, 'Am I mad?', is clearly answered NO! by examining his specimen pages of output including those relating to 10-digit values of  $n$ . Listings supplied. Details from John directly upon request.