962-T1-267   **Jay A Malmstrom*** (`malmstrm@qns.com`), 7777 S May, Oklahoma City, OK 73159. *A Generalized Divisibility Check.* Preliminary report.

Many of us remember being told that a number was divisible by three if the sum of its digits is divisible by three. This check also works for divisibility by nine. This is because the remainder of division of 10 by 3 and 9 is 1. This result can be extended to divisibility checks by other integers by using properties of rings and polynomials. (Received September 05, 2000)