**Prime generating integers**

**Problem 357**

Consider the divisors of 30: 1,2,3,5,6,10,15,30.

It can be seen that for every divisor *d* of 30, *d*+30/*d* is prime.

Find the sum of all positive integers *n* not exceeding

100 000 000

such that for every divisor *d* of *n*, *d*+*n*/*d* is prime.