```
ENTRY NUMBER = 2019 T710953
             N = 53
              M = 20190953
                 B = &f, 533 = set of divisors of N.
     Given definitions: a-b = gcd (a, b)
                           a+6= lom (a,6)
                           a' = N/a
            I+ = 4 (identity of the operation)
I. = N (identity of operation)
     for any a EB, a. "one" = a.
"one" is N.
                        a + "zero" = a
zero" is I.
        = u. N = ycd (a, N)
= a
= a
+ "zero" = a + 1 = lcn (a, 1) law.
                  = a.N = gcd(a, N)
     Checking for compliment laws,
           a + a' = a + N_a = lcm(a, N_a)
          a \cdot a' = gcd(a, N/a) = 1
= "zero"
                                                numbers which
                                                Lare coprime to
                                                each other.
        Hence, this law is also satisfied.
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B = 21,533 N=53For element 1 in the set, 1' = 63/4 $= 63 \in B$ .

For element 63 in the set, 53' = 53/53  $= 1 \in B.$ 

For 21,533 & which belongs to the set,

1.  $53 = 9cd(1,53) = 1 \in B$ .

1.  $453 = lcn(1,63) = 53 \in B$ .

in The triple  $\langle B_1, \cdot, +, ', T+, T_1 \rangle$  forms a Boolean algebra.