Special numbers 6/10/10

One special number I found was 89.

In my special numbers

Let $a \in \mathbb{Z}^+, \leq 9$ and

Let $b \in \mathbb{Z}, 0 < b \leq 9$.

Where my special number is $10a+b$

$\therefore 10a+b = ab + (a+b)$

or $10a+b = ab + a + b$

or $10a - a = ab + b - b$

or $9a = ab$

or $9a - ab = 0$

or $a(9-b) = 0$ —— (1)

$\therefore a$ or $9-b = 0$

but a cannot be 0 from definition

$\therefore b = 9$

Equation 1 is valid for all values of a and $b = 9$.

All 2-digited numbers ending in 9 are special.