

Is a number an integer squared? The proof

Integer x	The last digit of x^2
0	0
± 1	1
± 2	4
± 3	9
± 4	6
± 5	5
± 6	6
± 7	9
± 8	4
± 9	1

Numbers 2, 3, 7 and 8 don't occur as **last** x^2 digits as they can't be the result of $x*x$ multiplication of no matter how big integer numbers.