Primeness Test {Version III}

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Abstract

In this research investigation, the author presents a '*Primeness Test*' which can be used to test if any given number is Prime.

Theory

Given any number p_n, usually written in Base 10 as

$p_n = a_k a_{k-1} a_{k-2} \ldots\ldots\ldots a_3 a_2 a_1 a_0$ where

$$a_k a_{k-1} a_{k-2} \ldots\ldots\ldots a_3 a_2 a_1 a_0 = \sum_{i=0}^{k} (a_i)(10)^i$$

which can be written as

$$\sum_{i=0}^{k} (a_i)(10)^i = a_0 + (p_n - a_0)$$

Letting $(p_n - a_0) = z$ we note that z is a multiple of10.

If p_n is to be Prime, then the values of a_0 cannot be Even, i.e., it must be Odd. This implies that z must be Even. Also, a_0 can possibly take the values of 1, 3, 7 and 9 only as it being 5 implies that p_n is divisible by 5. If p_n is not a Prime, we can write it as

$p_n = a_0 + z = 3r$ and/ or

$p_n = a_0 + z = 7s$ and/ or

$p_n = a_0 + z = 9s$

We now implement the following Double For Loop for checking the divisibility of

z

by 3:

$for\ \ i = 1\ to\ 9$

We check if

$z = 3i(10)^{j_i}$

$for\ \ j_i = 1\ to\ k_i$

such that $3i(10)^{(k_i+1)}\ is\ \ just\ \ > \ z$

end

end

We now implement the following Double For Loop for checking the divisibility of

z

by 7:

$for\ \ i = 1\ to\ 9$

We check if

$z = 7i(10)^{j_i}$

$for\ \ j_i = 1\ to\ k_i$

such that $7i(10)^{(k_i+1)}\ is\ \ just\ \ > \ z$

end

end

We now implement the following Double For Loop for checking the divisibility of

z

by 7:

$for\ \ i = 1\ to\ 9$

We check if

$z = 9i(10)^{j_i}$

$for\ \ j_i = 1\ to\ k_i$

such that $9i(10)^{(k_i+1)}\ is\ just\ >\ z$

end

end

We now present the analysis as follows:

Divisibility by 3		
a_0	z is divisible by 3	z is not divisible by 3
1	$a_0 + z$ is not divisible by 3	When z is not divisible by 3, it is either lacking and/ or in excess by ± 1 gives $\pm 1 + 1 = 2, 0$ Hence, $a_0 + z$ is not divisible by 3 for the case of $+1$ (lacking and/ or in excess by) but is divisible by 3 for the case of -1 (lacking and/ or in excess by) ± 2 gives $\pm 2 + 1 = 3, -1$ Hence, $a_0 + z$ is divisible by 3 for the case of $+2$ (lacking and/ or in excess by) but is not divisible by 3 for the case of -2

		(lacking and/ or in excess by)

a_0	z is divisible by 3	z is not divisible by 3
3	$a_0 + z$ is divisible by 3	When z is not divisible by 3, it is either lacking and/ or in excess by ± 1 gives $\pm 1 + 3 = 4, 2$ Hence, $a_0 + z$ is not divisible by 3 ± 2 gives $\pm 2 + 3 = 5, 1$ Hence, $a_0 + z$ is not divisible by 3

a_0	z is divisible by 3	z is not divisible by 3
7	$a_0 + z$ is not divisible by 3	When z is not divisible by 3, it is either lacking and/ or in excess by ± 1 gives $\pm 1 + 7 = 8, 6$ Hence, $a_0 + z$ is not divisible by 3 for the case of $+1$ (lacking and/ or in excess by) but is divisible by 3 for the case of -1 (lacking and/ or in excess by) ± 2 gives $\pm 2 + 7 = 9, 5$ Hence, $a_0 + z$ is divisible by by 3 for the case of $+2$ (lacking and/ or in excess by) but is not divisible by 3 for the case of -2 (lacking and/ or in excess by)

a_0	z is divisible by 3	z is not divisible by 3
9	$a_0 + z$ is divisible by 3	When z is not divisible by 3, it is either lacking and/ or in excess by ± 1 gives $\pm 1 + 9 = 10, 8$ Hence, $a_0 + z$ is not divisible by 3 ± 2 gives $\pm 2 + 9 = 11, 7$ Hence, $a_0 + z$ is not divisible by 3

Divisibility by 7		
a_0	z is divisible by 7	z is not divisible by 7
1	$a_0 + z$ is not divisible by 7	When z is not divisible by 7, it is either lacking and/ or in excess by ± 1 gives $\pm 1 + 1 = 2, 0$ Hence, $a_0 + z$ is not divisible by 7 for the case of $+1$ (lacking and/ or in excess by) but is divisible by 7 for the case of -1 (lacking and/ or in excess by) ± 2 gives $\pm 2 + 1 = 3, -1$ Hence, $a_0 + z$ is not divisible by 7 ± 3 gives $\pm 3 + 1 = 4, -2$ Hence, $a_0 + z$ is not divisible by 7 ± 4 gives $\pm 4 + 1 = 5, -3$ Hence, $a_0 + z$ is not divisible by 7 ± 5 gives $\pm 5 + 1 = 6, -4$ Hence, $a_0 + z$ is not divisible by 7 ± 6 gives $\pm 6 + 1 = 7, -5$ Hence, $a_0 + z$ is divisible by 7 for the case of $+6$ (lacking and/ or in excess by) but is not divisible by 7 for the case of -6 (lacking and/ or in excess by)
a_0	z is divisible by 7	z is not divisible by 7
3	$a_0 + z$ is not divisible by 7	When z is not divisible by 7, it is either lacking and/ or in excess by ± 1 gives $\pm 1 + 3 = 4, 2$ Hence, $a_0 + z$ is not divisible by 7 ± 2 gives $\pm 2 + 3 = 5, 1$ Hence, $a_0 + z$ is not divisible by 7 ± 3 gives $\pm 3 + 3 = 6, 0$ Hence, $a_0 + z$ is not

		divisible by 7 for the case of $^{+3}$(lacking and/ or in excess by) but is divisible by 7 for the case of $^{-3}$(lacking and/ or in excess by)
		± 4 gives $\pm 4+3=7,-1$ Hence, a_0+z is divisible by 7 for the case of $^{+4}$(lacking and/ or in excess by) but is not divisible by 7 for the case of $^{-4}$ (lacking and/ or in excess by)
		± 5 gives $\pm 5+3=8,-2$ Hence, a_0+z is not divisible by 7
		± 6 gives $\pm 6+3=9,-3$ Hence, a_0+z is not divisible by 7
a_0	^{z} is divisible by 7	^{z} is not divisible by 7
7	a_0+z is divisible by 7	When ^{z} is not divisible by 7, it is either lacking and/ or in excess by
		± 1 gives $\pm 1+7=8,6$ Hence, a_0+z is not divisible by 7
		± 2 gives $\pm 2+7=9,5$ Hence, a_0+z is not divisible by 7
		± 3 gives $\pm 3+7=10,4$ Hence, a_0+z is not divisible by 7
		± 4 gives $\pm 4+7=11,-3$ Hence, a_0+z is not divisible by 7
		± 5 gives $\pm 5+7=12,2$ Hence, a_0+z is not divisible by 7
		± 6 gives $\pm 6+7=13,1$ Hence, a_0+z is not divisible by 7
a_0	^{z} is divisible by 7	^{z} is not divisible by 7
9	a_0+z is divisible by 7	When ^{z} is not divisible by 7, it is either lacking and/ or in excess by
		± 1 gives $\pm 1+9=10,8$ Hence, a_0+z is not divisible by 7

		± 2 gives $\pm 2+9=11,7$ Hence, a_0+z is not divisible by 7
		± 3 gives $\pm 3+9=12,6$ Hence, a_0+z is not divisible by 7
		± 4 gives $\pm 4+9=13,5$ Hence, a_0+z is not divisible by 7
		± 5 gives $\pm 5+9=14,4$ Hence, a_0+z is divisible by 7 for the case of $+5$ (lacking and/ or in excess by) but is not divisible by 7 for the case of -5 (lacking and/ or in excess by)
		± 6 gives $\pm 6+9=15,3$ Hence, a_0+z is not divisible by 7

Divisibility by 9		
a_0	z is divisible by 9	z is not divisible by 9
1	a_0+z is not divisible by 9	When z is not divisible by 9, it is either lacking and/ or in excess by
		± 1 gives $\pm 1+1=2,0$ Hence, a_0+z is not divisible by 9 for the case of $+1$ (lacking and/ or in excess by) but is divisible by 9 for the case of -1 (lacking and/ or in excess by)
		± 2 gives $\pm 2+1=3,-1$ Hence, a_0+z is not divisible by 9
		± 3 gives $\pm 3+1=4,-2$ Hence, a_0+z is not divisible by 9
		± 4 gives $\pm 4+1=5,-3$ Hence, a_0+z is not divisible by 9
		± 5 gives $\pm 5+1=6,-4$ Hence, a_0+z is not divisible by 9
		± 6 gives $\pm 6+1=7,-5$ Hence, a_0+z is not divisible by 9

		± 7 gives $\pm 7+1=8-6$ Hence, a_0+z is not divisible by 9
		± 8 gives $\pm 8+1=9,-7$ Hence, a_0+z is divisible by 9 for the case of $+8$ (lacking and/ or in excess by) but is not divisible by 9 for the case of -8 (lacking and/ or in excess by)
a_0	z is divisible by 9	z is not divisible by 9
3	a_0+z is not divisible by 9	When z is not divisible by 9, it is either lacking and/ or in excess by
		± 1 gives $\pm 1+3=4,2$ Hence, a_0+z is not divisible by 9
		± 2 gives $\pm 2+3=5,1$ Hence, a_0+z is not divisible by 9
		± 3 gives $\pm 3+3=6,0$ Hence, a_0+z is not divisible by 9 for the case of $+3$ (lacking and/ or in excess by) but is divisible by 9 for the case of -3 (lacking and/ or in excess by)
		± 4 gives $\pm 4+3=7,-1$ Hence, a_0+z is not divisible by 9
		± 5 gives $\pm 5+3=8,-2$ Hence, a_0+z is not divisible by 9
		± 6 gives $\pm 6+3=9,-3$ Hence, a_0+z is divisible by 9 for the case of $+6$ (lacking and/ or in excess by) but is not divisible by 9 for the case of -6 (lacking and/ or in excess by)
		± 7 gives $\pm 7+3=10,-4$ Hence, a_0+z is not divisible by 9
		± 8 gives $\pm 8+3=11,-5$ Hence, a_0+z is not divisible by 9
a_0	z is divisible by 9	z is not divisible by 9
7	a_0+z is not divisible	

	by 9	When z is not divisible by 9, it is either lacking and/ or in excess by
		± 1 gives $\pm 1+7=8,6$ Hence, a_0+z is not divisible by 9
		± 2 gives $\pm 2+7=9,5$ Hence, a_0+z is divisible by 9 for the case of $+2$ (lacking and/ or in excess by) but is not divisible by 9 for the case of -2 (lacking and/ or in excess by)
		± 3 gives $\pm 3+7=10,4$ Hence, a_0+z is not divisible by 9
		± 4 gives $\pm 4+7=11,-3$ Hence, a_0+z is not divisible by 9
		± 5 gives $\pm 5+7=12,2$ Hence, a_0+z is not divisible by 9
		± 6 gives $\pm 6+7=13,1$ Hence, a_0+z is not divisible by 9
		± 7 gives $\pm 7+7=14,0$ Hence, a_0+z is not divisible by 9 for the case of $+7$ (lacking and/ or in excess by) but is divisible by 9 for the case of -7 (lacking and/ or in excess by)
		± 8 gives $\pm 8+7=15,-1$ Hence, a_0+z is not divisible by 9
a_0	z is divisible by 9	z is not divisible by 9
9	a_0+z is divisible by 9	
		When z is not divisible by 9, it is either lacking and/ or in excess by
		± 1 gives $\pm 1+9=10,8$ Hence, a_0+z is not divisible by 9
		± 2 gives $\pm 2+9=11,7$ Hence, a_0+z is not divisible by 9
		± 3 gives $\pm 3+9=12,6$ Hence, a_0+z is not divisible by 9

		± 4 gives $\pm 4+9=13,5$ Hence, a_0+z is not divisible by 9
		± 5 gives $\pm 5+9=14,4$ Hence, a_0+z is not divisible by 9
		± 6 gives $\pm 6+9=15,3$ Hence, a_0+z is not divisible by 7
		± 7 gives $\pm 7+9=16,2$ Hence, a_0+z is not divisible by 9
		± 8 gives $\pm 8+9=17,1$ Hence, a_0+z is not divisible by 9

From the above analysis, we can quickly infer if p_n is Prime or not.

Moral

Love Is Totally Becoming The Soul Of Your Loved Ones.

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1. **One, Two, Three and N Dimensional String Search Algorithms**

Ramesh C. Bagadi

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Dedication

All of the aforementioned Research Works, inclusive of this One are ***Dedicated to Lord Shiva****.*