



Primeness Test

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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

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

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

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 of 10.

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 3 and 7 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

$$p_n = a_0 + z = 3r \quad \text{and/ or} \quad p_n = a_0 + z = 7s$$

That is,

$$r = \frac{a_0}{3} + \frac{z}{3} \quad \text{and/ or} \quad s = \frac{a_0}{7} + \frac{z}{7}$$

Since z is a multiple of 10, we can check if it is multiple of 3 by checking if

$$z = 3(10)^{m_{10}} \quad \text{for } m_{10} = 1 \quad \text{to } g \quad \text{such that } 3(10)^{g_{m_{10}}+1} > z$$

Also, since z is a multiple of 10, we can check if it is multiple of 7 by checking if

$$z = 7(10)^{m_{20}} \quad \text{for } m_{20} = 1 \quad \text{to } g \quad \text{such that } 7(10)^{g_{m_{20}}+1} > z$$

We repeat this procedure, so on, so forth until

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$z = 3(80)^{m_{80}}$ for $m_{80} = 1$ to g such that $3(80)^{g_{m_{80}}+1} > z$ and

$z = 3(90)^{m_{90}}$ for $m_{90} = 1$ to g such that $3(90)^{g_{m_{90}}+1} > z$

If z is divisible by 3, and since a_0 can take values of 0 and 3 only, therefore,

p_n is divisible by 3.

If z is not divisible by 3, and since a_0 can take values of 0 and 3 only, p_n will be lacking and/ or in excess by 1+3 unit or 2+3 units in order to be divisible by 3.

Therefore, if z is not divisible by 3, p_n is not divisible by 3.

We repeat the same procedure for $s = \frac{a_0}{7} + \frac{z}{7}$

Therefore, if we cannot find r and s to be integral, p_n is prime.

Moral

There Is A Season For Everything.

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**Complete Recursive Subsets Of Any Set Of Concern And/ Or Orthogonal Universes
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[4] viXra:1510.0030 submitted on 2015-10-03 12:59:02, (15 unique-IP
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Characteristically Representing Such Aforementioned Evolution And/ Or Growth**

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[3] viXra:1510.0006 submitted on 2015-10-02 03:08:21, (22 unique-IP
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Authors: Ramesh Chandra Bagadi

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[2] viXra:1509.0291 submitted on 2015-09-30 07:47:28, (21 unique-IP
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The Prime Sequence's (Of Higher Order Space's) Generating Algorithm

Authors: Ramesh Chandra Bagadi

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[1] viXra:1502.0100 submitted on 2015-02-14 03:41:23, (53 unique-IP
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Corrosion and Its Control: Proceedings of International Conference on Corrosion CORCON '97 A NACE International Conference, Nehru Centre, Mumbai, India, 3-6 December 1997, Elsevier Science Ltd Publishers, Vol. II, (1997) pp. 1067-1073, ISBN 13: **9780444829160**ISBN 10: 0444829164
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Ramesh Chandra Bagadi

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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.***