

## ***[original article ]***

### ***toshichan-man's small theorem***

#### ***ver.2***

### ***[Abstract]***

If the sum of the digits of a natural number is 6, 9, 12, 15, 18, 21, 24, 27 ... .. (multiples of 3 excluding 3), it is definitely not a prime number

### ***[Discussion]***

In 101, each digit is added 2, is a prime number.  
In 1021, each digit is added 4, is a prime number.  
In 1201, each digit is added 4, is a prime number.  
In 3001, each digit is added 4, is a prime number.  
In 21001, each digit is added 4, is a prime number.  
In 10111, each digit is added 4, is a prime number.  
In 12011, each digit is added 5, is a prime number.  
In 12101, each digit is added 5, is a prime number.  
In 30011, each digit is added 5, is a prime number.  
In 50101, each digit is added 7, is a prime number.  
In 12203, each digit is added 8, is a prime number.  
In 10007, each digit is added 8, is a prime number.  
In 10009, each digit is added 10, is a prime number.  
In 23311, each digit is added 10, is a prime number.  
In 50053, each digit is added 13, is a prime number.  
In 15233, each digit is added 14, is a prime number.  
In 15217, each digit is added 16, is a prime number.  
In 51721, each digit is added 16, is a prime number.

In 46507, each digit is added 22, is a prime number.  
In 46471, each digit is added 22, is a prime number.  
In 51859, each digit is added 28, is a prime number.  
In 49367, each digit is added 29, is a prime number.  
In 48479, each digit is added 32, is a prime number.

In 501, each digit is added 6, not a prime number  
In 6201, each digit is added 6, not a prime number  
In 2331, each digit is added 9, not a prime number  
In 7101, each digit is added 9, not a prime number  
In 3213, each digit is added 9, not a prime number  
In 3321, each digit is added 9, not a prime number  
In 2133, each digit is added 9, not a prime number  
In 1233, each digit is added 9, not a prime number  
In 4413, each digit is added 12, not a prime number  
In 7401, each digit is added 12, not a prime number  
In 1443, each digit is added 12, not a prime number  
In 7221, each digit is added 12, not a prime number  
In 1803, each digit is added 12, not a prime number  
In 1281, each digit is added 12, not a prime number  
In 1173, each digit is added 12, not a prime number  
In 1551, each digit is added 12, not a prime number  
In 1353, each digit is added 12, not a prime number  
In 4431, each digit is added 12, not a prime number

$$100*b+10*c+d, \quad b+c+d=6k$$

$$1000*a+100*b+10*c+d,$$

I will prove it later.

This seems to be useful for determining prime numbers.

**[Reference]**

1) [https://en.wikipedia.org/wiki/Prime\\_number](https://en.wikipedia.org/wiki/Prime_number)



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(I am very poor of English. Almost all document are google-translation.  
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