# Primes obtained concatenating four consecutive numbers, the largest one being a Poulet number 

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#### Abstract

In this paper I conjecture that there exist an infinity of primes obtained concatenating four consecutive numbers, the largest one from them being a Poulet number. For example, 1726172717281729 is such a prime, obtained concatenating the numbers 1726, 1727, 1728 and 1729, where 1729 is a Poulet number (see the sequence A030471 in OEIS for primes which are concatenation of four consecutive numbers).


## Conjecture:

There exist an infinity of primes obtained concatenating four consecutive numbers, the largest one from them being a Poulet number.

Example: 1726172717281729 is such a prime, obtained concatenating the numbers 1726, 1727, 1728 and 1729, where 1729 is a Poulet number.

Note: see the sequence A030471 in OEIS for primes which are concatenation of four consecutive numbers.

## The first ten such primes:

|  | 1726172717281729 (1729 | is | , |  | number); |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| : | 2044204520462047 (2047 | is the | 8th | Poulet | number) |  |
| : | 2818281928292821 (2821 | is the | 11st | Poulet | number) |  |
| : | 4678467946804681 (2821 | is the | 16th | Poulet | number) | ; |
| : | 8318831983208321 (8321 | is the | 20th | Poulet | number) |  |
| : | ```13978139791398013981 number);``` | (13981 | is | the | 29th | Poulet |
| : | ```15706157071570815709 number);``` | (15709 | is | the | 31 st | Poulet |
| : | ```15838158391584015841 number);``` | (15841 | is | the | 32 nd | Poulet |
| : | ```19948199491995019951 number);``` | (19951 | is | the | 36 th | Poulet |
| : | ```30118301193012030121 number).``` | (30121 | is | the | 41 st | Poulet |

