

**Primes obtained concatenating $2n+4$ with $2n+4$ then
with n where $n=3p$ and p prime**

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Abstract. In this paper I make the following conjecture: There exist an infinity of primes obtained concatenating $2*n + 4$ with $2*n + 4$ then with n where $n = 3*p$ and p is a prime; for example, such primes are 19019093 obtained concatenating $190 = 2*(3*31) + 4$ with 190 then with $93 = 3*31$ or 12701270633 obtained concatenating $1270 = 2*(3*211) + 4$ with 1270 then with $633 = 3*211$. Note that for twenty-five from the first eighty primes p are obtained primes with this method.

Conjecture:

There exist an infinity of primes obtained concatenating $2*n + 4$ with $2*n + 4$ then with n where $n = 3*p$ and p is a prime.

Note that I use the sign `"/"` with the meaning "concatenated with".

The first twenty-five primes from this sequence:

: 464621, obtained for $p = 7$ (46//46//21);
: 828239, obtained for $p = 13$ (82//82//39);
: 10610651, obtained for $p = 17$ (106//106//51);
: 19019093, obtained for $p = 31$ (190//190//93);
: 250250123, obtained for $p = 41$ (250//250//123);
: 262262129, obtained for $p = 43$ (262//262//129);
: 286286141, obtained for $p = 47$ (286//286//141);
: 370370183, obtained for $p = 61$ (370//370//183);
: 502502249, obtained for $p = 83$ (502//502//249);
: 622622309, obtained for $p = 103$ (622//622//309);
: 682682339, obtained for $p = 113$ (682//682//339);
: 766766381, obtained for $p = 127$ (766//766//381);
: 838838417, obtained for $p = 139$ (838//838//417);
: 910910453, obtained for $p = 151$ (910//910//453);
: 982982489, obtained for $p = 163$ (982//982//489);
: 12701270633, obtained for $p = 211$ (1270//1270//633);
: 13781378687, obtained for $p = 229$ (1378//1378//687);
: 15821582789, obtained for $p = 263$ (1582//1582//789);
: 208620861041, obtained for $p = 347$
(2086//2086//1041);
: 245824581227, obtained for $p = 409$
(2458//2458//1227).

Note that for twenty-five from the first eighty primes p are obtained primes with this method.