> *# find prime k-tuple with pattern [0,2,8]*
> *# these primes will have for 5 mod 6 for first term*
> *counter := 1 :*
> **for** *a* **from** 5 **to** 4000 **by** 6 **do**
>   **if** *isprime*(*a*) **and** *isprime*(*a*+2) **and** *isprime*(*a*+8) **then** *print*(*counter, a*); *counter*
>   := *counter*+1 **end if**;
> **end do**;

$$1, 5$$
$$2, 11$$
$$3, 29$$
$$4, 59$$
$$5, 71$$
$$6, 101$$
$$7, 149$$
$$8, 191$$
$$9, 269$$
$$10, 431$$
$$11, 569$$
$$12, 599$$
$$13, 821$$
$$14, 1031$$
$$15, 1061$$
$$16, 1229$$
$$17, 1289$$
$$18, 1319$$
$$19, 1451$$
$$20, 1481$$
$$21, 1619$$
$$22, 1871$$
$$23, 2081$$
$$24, 2129$$
$$25, 2339$$
$$26, 2381$$
$$27, 2549$$
$$28, 2711$$
$$29, 2789$$
$$30, 3251$$
$$31, 3299$$
$$32, 3461$$
$$33, 3539$$

(1)

> *# so we have a short list of 3-tuples with pattern [0,2,8]*
> *# This pattern has been calculated to 10,000 terms in OEIS. See oeis.org slash A046134.*
> *# Have a nice day. Matt Anderson   August 2022*