

NAME

openssl-prime - compute prime numbers

SYNOPSIS

openssl prime [**-help**] [**-hex**] [**-generate**] [**-bits** *num*] [**-safe**] [**-provider** *name*] [**-provider-path** *path*]
[**-propquery** *propq*] [**-checks** *num*] [*number ...*]

DESCRIPTION

This command checks if the specified numbers are prime.

If no numbers are given on the command line, the **-generate** flag should be used to generate primes according to the requirements specified by the rest of the flags.

OPTIONS**-help**

Display an option summary.

-hex

Generate hex output.

-generate

Generate a prime number.

-bits *num*

Generate a prime with *num* bits.

-safe

When used with **-generate**, generates a "safe" prime. If the number generated is *n*, then check that " $(n-1)/2$ " is also prime.

-provider *name***-provider-path** *path***-propquery** *propq*

See "Provider Options" in **openssl(1)**, **provider(7)**, and **property(7)**.

-checks *num*

This parameter is ignored.

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