NAME

openssl−prime, prime − compute prime numbers

SYNOPSIS

openssl prime [**−help**] [**−hex**] [**−generate**] [**−bits**] [**−safe**] [**−checks**] [*number...*]

DESCRIPTION

The **prime** 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.

[**−checks num**]

Perform the checks **num** times to see that the generated number is prime. The default is 20.

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