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Rocky Enterprise Linux 9.2 Manual Pages on command 'BN_mod_inverse.3ossl'

\$ man BN_mod_inverse.3ossl

BN_MOD_INVERSE(3ossl) OpenSSL BN_MOD_INVERSE(3ossl)

NAME

BN_mod_inverse - compute inverse modulo n

SYNOPSIS

```
#include <openssl/bn.h>
```

```
BIGNUM *BN_mod_inverse(BIGNUM *r, BIGNUM *a, const BIGNUM *n,  
                        BN_CTX *ctx);
```

DESCRIPTION

BN_mod_inverse() computes the inverse of a modulo n places the result in r (" $a \cdot r \pmod n = 1$ "). If r is NULL, a new BIGNUM is created.

ctx is a previously allocated BN_CTX used for temporary variables. r

may be the same BIGNUM as a or n.

RETURN VALUES

`BN_mod_inverse()` returns the `BIGNUM` containing the inverse, and `NULL` on error. The error codes can be obtained by `ERR_get_error(3)`.

SEE ALSO

`ERR_get_error(3)`, `BN_add(3)`

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