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Red Hat Enterprise Linux Release 9.2 Manual Pages on 'BN_mod_inverse.3ossl' command

\$ 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*r)%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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