

C LIBRARY FUNCTION - LDIV

http://www.tutorialspoint.com/c_standard_library/c_function_ldiv.htm

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Description

The C library function **div_t divlongintnumber, longintdenom** divides **number** *numerator* by **denom** *denominator*.

Declaration

Following is the declaration for ldiv function.

```
div_t div(long int number, long int denom)
```

Parameters

- **number** -- This is the numerator.
- **denom** -- This is the denominator.

Return Value

This function returns the value in a structure defined in <stdlib>, which has two members. For ldiv_t: *long quot; long rem;*

Example

The following example shows the usage of ldiv function.

```
#include <stdio.h>
#include <stdlib.h>

int main ()
{
    ldiv_t output;

    output = ldiv(100000L, 30000L);

    printf("Quotient = %ld\n", output.quot);
    printf("Remainder = %ld\n", output.rem);

    return(0);
}
```

Let us compile and run the above program that will produce the following result:

```
Quotient = 3
Remainder = 10000
```

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