

C library function - ldiv()

Description

The C library function **ldiv_t ldiv(long int numer, long int denom)** divides **numer (numerator)** by **denom (denominator)**.

Declaration

Following is the declaration for ldiv() function.

```
ldiv_t ldiv(long int numer, long int denom)
```

Parameters

- **numer** – This is the numerator.
- **denom** – This is the denominator.

Return Value

This function returns the value in a structure defined in <stdlib.h>, 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);
}
```

[Live Demo](#)

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

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