

C LIBRARY MACRO - EDOM

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

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Description

As mentioned above, the C library macro **EDOM** represents a domain error, which occurs if an input argument is outside the domain, over which the mathematical function is defined and `errno` is set to `EDOM`.

Declaration

Following is the declaration for `EDOM` Macro.

```
#define EDOM some_value
```

Parameters

- NA

Return Value

- NA

Example

The following example shows the usage of `EDOM` Macro.

```
#include <stdio.h>
#include <errno.h>
#include <math.h>

int main()
{
    double val;

    errno = 0;
    val = sqrt(-10);

    if(errno == EDOM)
    {
        printf("Invalid value \n");
    }
    else
    {
        printf("Valid value\n");
    }

    errno = 0;
    val = sqrt(10);

    if(errno == EDOM)
    {
        printf("Invalid value\n");
    }
    else
    {
        printf("Valid value\n");
    }

    return(0);
}
```

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

Invalid value
Valid value