

## C Library - <errno.h>

The **errno.h** header file of the C Standard Library defines the integer variable **errno**, which is set by system calls and some library functions in the event of an error to indicate what went wrong. This macro expands to a modifiable lvalue of type `int`, therefore it can be both read and modified by a program.

The **errno** is set to zero at program startup. Certain functions of the standard C library modify its value to other than zero to signal some types of error. You can also modify its value or reset to zero at your convenience.

The **errno.h** header file also defines a list of macros indicating different error codes, which will expand to integer constant expressions with type **int**.

### Library Macros

Following are the macros defined in the header `errno.h` –

Sr.No.	Macro & Description
1	<code>extern int errno</code>  This is the macro set by system calls and some library functions in the event of an error to indicate what went wrong.
2	<code>EDOM</code> Domain Error  This macro represents a domain error, which occurs if an input argument is outside the domain, over which the mathematical function is defined and <code>errno</code> is set to <code>EDOM</code> .
3	<code>ERANGE</code> Range Error  This macro represents a range error, which occurs if an input argument is outside the range, over which the mathematical function is defined and <code>errno</code> is set to <code>ERANGE</code> .