

## C Library - <stddef.h>

The **stddef.h** header defines various variable types and macros. Many of these definitions also appear in other headers.



### Library Variables

Following are the variable types defined in the header `stddef.h` –

Sr.No.	Variable & Description
1	<b>ptrdiff_t</b> This is the signed integral type and is the result of subtracting two pointers.
2	<b>size_t</b> This is the unsigned integral type and is the result of the <b>sizeof</b> keyword.
3	<b>wchar_t</b> This is an integral type of the size of a wide character constant.

### Library Macros

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

Sr.No.	Macro & Description
1	<b>NULL</b>  This macro is the value of a null pointer constant.
2	<b>offsetof(type, member-designator)</b>  This results in a constant integer of type <code>size_t</code> which is the offset in bytes of a structure member from the beginning of the structure. The member is given by <i>member-designator</i> , and the name of the structure is given in <i>type</i> .