[C Preprocessors]

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C PREPROCESSORS]

The Preprocessor is a program invoked by the compiler that modifies the source code before the actual composition takes place.

The following section lists all Preprocessor directives:

Category	Directive	Description
Macro substitution division	#include	File include
	#define #undif	Macro define, Macro undefine
	#ifdef #ifndef	If macro defined, If macro not defined
File inclusion division	#if #elif #else #endif	If, Else, ifElse, End if
Compiler control division	#line #error #pragma	Set line number, Abort compilation, Set compiler option
CSCODINGS		

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C Preprocessor Examples

```
Syntax:
#include <stdio.h>
/* #define macro_name character_sequence */
#define LIMIT 10
int main()
{
    int counter;
    for(counter =1; counter <=LIMIT; counter++)</pre>
    {
         printf("%d\n",counter);
    }
return 0;
}
```

```
#include <stdio.h>
#include "header.h"
```

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#include <stdio.h> tell the compiler to add stdio.h file from System Libraries to the current source file, and #include "header.h" tells the compiler to get header.h from the local directory.

#undef LIMIT

#define LIMIT 20

This tells the compiler to undefine existing LIMIT and set it as 20.

#ifndef LIMIT

#define LIMIT 50

#endif

#ifdef LIMIT

/* Your statements here */#endif

This tells the compiler to do the process the statements enclosed if LIMIT is defined.

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