

In C programming language, semicolon (;) is used to terminate a statement. However, it is possible to use the printf() function without using semicolon by placing the function call inside a code block and using a compound statement. Here is an example:

A code editor window with a dark background and light-colored text. The code is a C program that includes <stdio.h>, defines a main function, and uses an if statement where the condition is printf("Hello, world!\n"). The code block inside the if statement is empty, indicated by a comment // do something else. The program returns 0 and ends with a closing brace for main.

```
#include <stdio.h>
int main() {
    if (printf("Hello, world!\n")) {
        // do something else
    }
    return 0;
}
```

In this example, the printf() function call is inside an if statement, and the code block following the if statement serves as a compound statement that replaces the semicolon. When the program is executed, the message "Hello, world!" will be printed on the screen, followed by a newline character. The return value of printf() is used as the condition for the if statement, which will evaluate to true if the message is printed successfully.

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