

C Booleans

Topics : [C](#)

Written on [April 12, 2023](#)

C programming language does not have a built-in boolean data type like some other programming languages. However, C provides support for boolean values using standard C library macros defined in the `stdbool.h` header file.

The `stdbool.h` header file defines two macros that can be used to represent boolean values:

1. `bool`: This macro represents a boolean value and can have two possible values: `true` or `false`. In C programming language, `true` is defined as 1, and `false` is defined as 0.
2. `true` and `false`: These macros represent the boolean values `true` and `false`, respectively.

Example:

```
#include <stdbool.h>
#include <stdio.h>

int main() {
    bool a = true;
    bool b = false;
    if (a) {
        printf("a is true\n");
    }
    if (!b) {
        printf("b is false\n");
    }
    return 0;
}
```

In the above example, we have included the `stdbool.h` header file and declared two boolean variables `a` and `b`. We have also used the `if` statement to check the boolean values of `a` and `b`.

Note that in C programming language, any non-zero value is considered `true`, and 0 is considered `false`. However, it is good practice to use the `true` and `false` macros to make the code more

readable and maintainable.

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