

## What should be data type of case labels of switch statement in C?

In C switch statement, the expression of each case label must be an integer constant expression.

For example, the following program fails in compilation.

```
/* Using non-const in case label */
#include<stdio.h>
int main()
{
    int i = 10;
    int c = 10;
    switch(c)
    {
        case i: // not a "const int" expression
            printf("Value of c = %d", c);
            break;
        /*Some more cases */
    }
    getchar();
    return 0;
}
```

[Run on IDE](#)

Putting *const* before *i* makes the above program work.

```
#include<stdio.h>
int main()
{
    const int i = 10;
    int c = 10;
    switch(c)
    {
        case i: // Works fine
            printf("Value of c = %d", c);
            break;
        /*Some more cases */
    }
    getchar();
    return 0;
}
```

[Run on IDE](#)

Please write comments if you find anything incorrect, or you want to share more information about the topic discussed above.



Choose from Top 150+ IT Courses & Rise in Your Career!

Big Data, Business Intelligence, Testing, Salesforce, Data Science, DataBase, etc...

**FLAT 15% OFF**  
COUPON CODE: ID15

**IntelliPaat**  
Enroll Now

## GATE CS Corner Company Wise Coding Practice

C/C++ Puzzles

### Related Posts:

- Printing source code of a C program itself
- isalpha() and isdigit() functions in C with example
- Nested printf (printf inside printf) in C
- Assigning an integer to float and comparison in C/C++
- Counts of distinct consecutive sub-string of length two using C++ STL
- auto\_ptr, unique\_ptr, shared\_ptr and weak\_ptr
- Interesting Facts in C Programming
- Dangling, Void , Null and Wild Pointers

Logged in as **mohitingale5** ( Logout )

**1.6**

Average Difficulty : **1.6/5.0**  
Based on **11** vote(s)

Basic

Easy

Medium

Hard

Expert

Add to TODO List

Mark as DONE

Writing code in comment? Please use [code.geeksforgeeks.org](http://code.geeksforgeeks.org) generate link and share the link here.

Load Comments

@geeksforgeeks, Some rights reserved

Contact Us!  
Policy

About Us!

Advertise with us!

Privacy