



Students:
Section 5.14 is a part of 1 assignment: **CSC108 CH05.8-5.16 P5B**

Includes: PA

Due: 04/15/2025, 11:59 PM EDT

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5.14 Parameter error checking

Verifying parameter values

Commonly, a function expects parameter values to be within some range. *A good practice is to check that a parameter's value is within an expected range.* If not in the range, the function might take one or more of various actions, like outputting an error message, assigning a valid value, returning a value indicating failure, exiting the program, etc.

Figure 5.14.1: Function with parameter error checking.

```
#include <iostream>
using namespace std;

void PrintDate(int currDay, int currMonth, int currYear) {

    // Parameter error checking
    if ((currDay < 1) || (currDay > 31)) {
        cout << "Invalid day (" << currDay << "). Using 1." << endl;
        currDay = 1;
    }

    if ((currMonth < 1) || (currMonth > 12)) {
        cout << "Invalid month (" << currMonth << "). Using 1." << endl;
        currMonth = 1;
    }

    // Begin function's normal behavior
    cout << currMonth << "/" << currDay << "/" << currYear;
}

int main() {

    PrintDate(30, 7, 2012);
    cout << endl << endl;

    PrintDate(40, 7, 2012);
    cout << endl << endl;

    PrintDate(30, 13, 2012);
    cout << endl << endl;

    return 0;
}
```

```
7/30/2012

Invalid day (40). Using 1.
7/1/2012

Invalid month (13). Using 1.
1/30/2012
```

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PARTICIPATION
ACTIVITY

5.14.1: Checking parameter values.

Consider the example above.

1) The month must be in the range from 1 to ____ .

Check

Show answer

2) If the month parameter is not in the valid range, the code outputs an error message, and assigns currMonth with ____ .

Check

Show answer

3) In addition to currMonth, which other parameter is checked for being in a valid range?

Check

Show answer

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