

Feb 18, 10 10:41 **input_check.cpp** Page 1/1

```
// file: input_check.cpp
//
// Program to test what happens when you input non-integers when
// asking for integers.
//
// Programmer: Dick Furnstahl  furnstahl.1@osu.edu
//
// Revision history:
//   02/18/10  original version
//
// Notes:
//   * adapted from http://www.arachnoid.com/cpptutor/student1.html
//
// To do:
//
//*****
#include <iostream>
#include <string>

using namespace std;

int
main (void)
{
    int x = 0;

    do
    {
        cout << "Enter a number (-1 = quit): ";
        cin >> x;

        if (x != -1)
        {
            cout << "You entered " << x << endl << endl;
        }
    }
    while(x != -1);

    cout << "Quitting program." << endl;

    return (0);
}
```

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```
// file: input_check_fixed.cpp
//
// Program to test what happens when you input non-integers when
// asking for integers. This is the modified version, that doesn't
// go crazy when you do this!
//
// Programmer: Dick Furnstahl  furnstahl.1@osu.edu
//
// Revision history:
//   02/18/10  original version
//
// Notes:
//   * adapted from http://www.arachnoid.com/cpptutor/student1.html
//   * cin returns a true or false boolean value (the variable type
//     is "bool") according to whether or not the input was successful.
//
// To do:
//
//*****
#include <iostream>
#include <string>

using namespace std;

int
main (void)
{
    int x = 0;
    bool status = true; // This will be our flag for whether cin was successful

    do
    {
        cout << "Enter a number (-1 = quit): ";

        status = cin >> x;
        if (!status)
        {
            // status=false takes us here
            string bad_input;
            cout << "You broke the input stream!" << endl;
            cin.clear(); // This step is necessary, but doesn't fix the stream.
            cin >> bad_input; // The bad input is still in the stream. Get it!
            cout << "You typed\" << bad_input
                << "\" instead of an integer." << endl;
            cout << "Please try again." << endl << endl;
        }
        else if (x != -1)
        {
            cout << "You entered " << x << endl << endl;
        }
    }
    while(x != -1);

    cout << "Quitting program." << endl;

    return (0);
}
```