

Stack Overflow is a community of 4.7 million programmers, just like you, helping each other. Join them, it only takes a minute:

Sign up



not exiting while loop with cin as condition c++



I know that this is a common question but i could not find any solution to this question without using vectors and ctrl + d/c. I have encounter a infinite while loop while using cin to get a unknown amount of integer. the while loop does not stop executing even after a enter in pressed. Thanks a lot!

```
while(cin >> num)
{
    num--;
    sizeB = 0;
    setB[sizeB] = num;
    sizeB++;
}
cin.ignore();
cin.clear();
```

c++ while-loop cin infinite

edited Jul 17 '14 at 12:57

asked Jul 17 '14 at 12:07

Aurora_rainbow
11 5

Whitespace is ignored in formatted input operations. A newline is whitespace. Maybe you want to use `getline` instead? – Zeta Jul 17 '14 at 12:11

If `num` is an integer than typing letters and pressing Enter will cause the loop to exit – M.M Jul 17 '14 at 12:23

1 @MarcoA the condition is `cin . (operator>> returns reference to cin)`. It's equivalent to doing `!cin.fail()` , i.e. check that neither end-of-file occurred, nor that something was typed which failed to be converted to the type of `num` . – M.M Jul 17 '14 at 12:24

@Zeta I am sorry i could not use `getline` as if i use `get line` it will be read all the values as one sentence. – Aurora_rainbow Jul 17 '14 at 12:26

@MattMcNabb I'm not used to this usecase, that's definitely true (cplusplus.com/reference/ios/ios/operator_bool). To be precise 'does not return the same as member good, but the opposite of member fail' – Marco A. Jul 17 '14 at 12:27

2 Answers

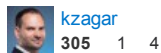
It is possible to use `getline` function to get data line-by-line, then read values via a `stringstream`:

```
#include <iostream>
#include <stdio.h>
#include <sstream>


using namespace std;

int main() {
    string line;
    while(getline(cin, line)) {
        stringstream str_stream(line);
        int num;
        while(str_stream >> num) {
            cout << "... " << num << "... " << endl;
        }
        cout << "----" << endl;
    }
}
```

answered Jul 17 '14 at 12:22



Thanks a lot! because i did not learn stringstream before so i am a bit confuse but understand it now. – [Aurora_rainbow](#) Jul 17 '14 at 12:56

 join us on Facebook

`while` takes a bool argument. In your code, `cin >> num` returns an `istream&`, that is converted calling `istream::operator bool()` (and I'd guess evaluates to `true` if the stream is not closed)

read a string and convert it to int, break when the string is empty:

```
while (1) {  
    std::string theString;  
    std::getline(std::cin, theString);  
    if (theString.empty())  
        break;  
    int num= atoi(theString.c_str());  
    ...  
}
```

answered Jul 17 '14 at 12:17



While this is true, it doesn't answer the (implicit) question yet. – [Zeta](#) Jul 17 '14 at 12:18
