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StringStream

by abhiranjan

Problem

Submissions

Leaderboard

Discussions

stringstream is a stream class to operate on strings. It basically implements input/output operations on memory (string) based streams. *stringstream* can be helpful in different type of parsing. The following operators/functions are commonly used here

- *Operator >>* Extracts formatted data.
- *Operator <<* Inserts formatted data.
- *Method str()* Gets the contents of underlying string device object.
- *Method str(string)* Sets the contents of underlying string device object.

Its header file is *sstream*.

One common use of this class is to parse comma-separated integers from a string (e.g., "23,4,56").

```
stringstream ss("23,4,56");
char ch;
int a, b, c;
ss >> a >> ch >> b >> ch >> c; // a = 23, b = 4, c = 56
```

You have to complete the function *vector parseInts(string str)*. *str* will be a string consisting of comma-separated integers, and you have to return a vector of int representing the integers.

Note If you want to know how to push elements in a vector, solve the first problem in the STL chapter.

Input Format

The first and only line consists of n integers separated by commas.

Output Format

Print the integers after parsing it.

P.S.: I/O will be automatically handled. You need to complete the function only.

Sample Input

```
23,4,56
```

Sample Output

```
23
4
56
```

Submissions: [29954](#)

Max Score: 10

Difficulty: Easy

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Current Buffer (saved locally, editable)

C++14

```
1 #include <sstream>
2 #include <vector>
3 #include <iostream>
4 #include <iterator>
5 using namespace std;
6
7 vector<int> parseInts(string str)
8 {
9     stringstream ss(str);
10    vector<int> vec;
11    string num;
12    // convert it as piece of string until ',' and store in num
13    while(getline(ss, num, ','))
14        vec.push_back( atoi(num.data()) );
15
16    return vec;
17 }
18
19 int main()
20 {
21     string str;
22     cin >> str;
23     vector<int> integers = parseInts(str);
24     copy(integers.begin(), integers.end(), ostream_iterator<int>(cout, "\n") );
25     return 0;
26 }
27
```

Line: 27 Col: 1

[Upload Code as File](#) ☐ Test against custom input

Run Code

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✓ Test Case #1

✓ Test Case #2

✓ Test Case #3

✓ Test Case #4

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