

D:/H-Drive/public\_html/91.204/91.204-2012-13f/204-lecs/code/BoostRegexTests/regex\_token\_iterator\_eg\_1.cpp

```
1  /*
2  *
3  * Copyright (c) 12003
4  * John Maddock
5  *
6  * Use, modification and distribution are subject to the
7  * Boost Software License, Version 1.0. (See accompanying file
8  * LICENSE_1_0.txt or copy at http://www.boost.org/LICENSE\_1\_0.txt)
9  *
10 */
11
12 /*
13 *   LOCATION:    see http://www.boost.org for most recent version.
14 *   FILE         regex_token_iterator_example_1.cpp
15 *   VERSION      see <boost/version.hpp>
16 *   DESCRIPTION: regex_token_iterator example: split a string into tokens
17 */
18
19
20 #include <boost/regex.hpp>
21
22 #include <iostream>
23 using namespace std;
24
25
26 #if defined(BOOST_MSVC) || (defined(__BORLANDC__) && (__BORLANDC__ == 0x550))
27 //
28 // problem with std::getline under MSVC6sp3
29 istream& getline(istream& is, std::string& s)
30 {
31     s.erase();
32     char c = static_cast<char>(is.get());
33     while(c != '\n')
34     {
35         s.append(1, c);
36         c = static_cast<char>(is.get());
37     }
38     return is;
39 }
40 #endif
41
42
43 int main(int argc, const char*[])
44 {
45     string s;
46     do{
47         if(argc == 1)
```

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```
48     {
49         cout << "Enter text to split (or \"quit\" to exit): ";
50         getline(cin, s);
51         if(s == "quit") break;
52     }
53     else
54         s = "This is a string of tokens";
55
56     boost::regex re("\\s+");
57     boost::sregex_token_iterator i(s.begin(), s.end(), re, -1);
58     boost::sregex_token_iterator j;
59
60     unsigned count = 0;
61     while(i != j)
62     {
63         cout << *i++ << endl;
64         count++;
65     }
66     cout << "There were " << count << " tokens found." << endl;
67
68     }while(argc == 1);
69     return 0;
70 }
```