```
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
 6
   * Use, modification and distribution are subject to the
 7
   * Boost Software License, Version 1.0. (See accompanying file
   * 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());
     while(c != ' n')
33
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)
```

1.1 of 2

2009.12.08 07:42:33

```
D:/H-Drive/public_html/91.204/91.204-2012-13f/204-lecs/code/BoostRegexTests/regex_token_iterator_eg_1.cpp
48
         {
49
             cout << "Enter text to split (or \"quit\" to exit): ";</pre>
50
             getline(cin, s);
51
             if(s == "quit") break;
52
53
         else
54
             s = "This is a string of tokens";
55
         boost::regex re("\\s+");
56
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;</pre>
67
68
      }while(argc == 1);
69
      return 0;
70 }
```

2.1 of 2 2009.12.08 07:42:33

```
D:/H-Drive/public_html/91.204/91.204-2012-13f/204-lecs/code/BoostRegexTests/regex_token_iterator_eg_2.cpp
 1 /*
 2
 3
   * Copyright (c) 2003
 4 * John Maddock
 6 * Use, modification and distribution are subject to the
 7
   * Boost Software License, Version 1.0. (See accompanying file
  * 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_2.cpp
15
       VERSION
                      see <boost/version.hpp>
16
        DESCRIPTION: regex_token_iterator example: spit out linked URLs
17
     * /
18
19
20 #include <fstream>
21 #include <iostream>
22 #include <iterator>
23 #include <boost/regex.hpp>
24
25 boost::regex e("<\\s*A\\s+[^>]*href\\s*=\\s*\"([^\"]*)\"",
                  boost::regex::normal | boost::regbase::icase);
27
28 void load_file(std::string& s, std::istream& is)
30
      s.erase();
31
      if(is.bad()) return;
32
     //
33
      // attempt to grow string buffer to match file size,
34
      // this doesn't always work...
35
      s.reserve(static_cast<std::string::size_type>(is.rdbuf()->in_avail()));
36
     char c;
37
     while(is.get(c))
38
39
         // use logarithmic growth stategy, in case
         // in_avail (above) returned zero:
40
41
         if(s.capacity() == s.size())
42
            s.reserve(s.capacity() * 3);
43
         s.append(1, c);
44
45 }
46
47
```

1.1 of 2

3

2012.11.29 09:03:35

```
D:/H-Drive/public_html/91.204/91.204-2012-13f/204-lecs/code/BoostRegexTests/regex_token_iterator_eg_2.cpp
48 int main(int argc, char** argv)
49 {
50
      std::string s;
51
      int i;
52
      for(i = 1; i < argc; ++i)
53
54
         std::cout << "Findings URLs in " << argv[i] << ":\n" << std::endl;
55
         s.erase();
56
         std::ifstream is(argv[i]);
57
         load_file(s, is);
58
         is.close();
         boost::sregex_token_iterator i(s.begin(), s.end(), e, 1);
59
60
         boost::sregex_token_iterator j;
         while(i != j)
61
62
63
            std::cout << *i++ << std::endl;
64
65
66
      //
67
      // alternative method:
68
      // test the array-literal constructor, and split out the whole
69
      // match as well as $1....
70
      //
71
      for(i = 1; i < argc; ++i)
72
73
         std::cout << "\nFindings URLs in " << argv[i] <<</pre>
74
              ", alternative method:\n" << std::endl;
75
         s.erase();
         std::ifstream is(arqv[i]);
76
77
         load_file(s, is);
78
         is.close();
79
         const int subs[] = \{1, 0, \};
80
         boost::sregex_token_iterator i(s.begin(), s.end(), e, subs);
81
         boost::sregex_token_iterator j;
82
         while(i != j)
83
         {
84
            std::cout << *i++ << std::endl;
85
      }
86
87
88
      return 0;
89 }
```

2.1 of 2 2012.11.29 09:03:35