```
 1 /*
 2  *
 3  * Copyright (c) 1998-2002
 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_split_example_1.cpp
15   *   VERSION      see <boost/version.hpp>
16   *   DESCRIPTION: regex_split example: split a string into tokens.
17   */
18
19
20 #include <list>
21 #include <boost/regex.hpp>
22
23
24 unsigned tokenise(std::list<std::string>& l, std::string& s)
25 {
26    return boost::regex_split(std::back_inserter(l), s);
27 }
28
29 #include <iostream>
30 using namespace std;
31
32
33 #if defined(BOOST_MSVC) || (defined(__BORLANDC__) && (__BORLANDC__ == 0x550
34 //
35 // problem with std::getline under MSVC6sp3
36 istream& getline(istream& is, std::string& s)
37 {
38    s.erase();
39    char c = static_cast<char>(is.get());
40    while(c != '\n')
41    {
42       s.append(1, c);
43       c = static_cast<char>(is.get());
44    }
45    return is;
46 }
47 #endif
```

```
48
49
50 int main(int argc, const char*[])
51 {
52    string s;
53    list<string> l;
54    do{
55       if(argc == 1)
56       {
57          cout << "Enter text to split (or \"quit\" to exit): ";
58          getline(cin, s);
59          if(s == "quit") break;
60       }
61       else
62          s = "This is a string of tokens";
63       unsigned result = tokenise(l, s);
64       cout << result << " tokens found" << endl;
65       cout << "The remaining text is: \"" << s << "\"" << endl;
66       while(l.size())
67       {
68          s = *(l.begin());
69          l.pop_front();
70          cout << s << endl;
71       }
72    }while(argc == 1);
73    return 0;
74 }
```