```cpp
 1: // $Id: splitline.cpp,v 1.26 2014-04-24 14:18:14-07 - - $
 2:
 3: //
 4: // Illustrate splitting of input lines.
 5: //
 6:
 7: #include <iostream>
 8: #include <string>
 9: using namespace std;
10:
11: string trim (const string &str) {
12:    size_t first = str.find_first_not_of (" \t");
13:    if (first == string::npos) return "";
14:    size_t last = str.find_last_not_of (" \t");
15:    return str.substr (first, last - first + 1);
16: }
17:
18: int main() {
19:    for (;;) {
20:       string line;
21:       getline (cin, line);
22:       if (cin.eof()) break;
23:       cout << endl << "line  = \"" << line << "\"" << endl;
24:       line = trim (line);
25:       if (line.size() == 0 or line[0] == '#') {
26:          cout << "Comment or blank line." << endl;
27:          continue;
28:       }
29:       size_t pos = line.find_first_of ("=");
30:       if (pos == string::npos) {
31:          cout << "key   = \"" << line << "\"" << endl;
32:          cout << "No value in this line." << endl;
33:       }else {
34:          string key = trim (line.substr (0, pos == 0 ? 0 : pos - 1));
35:          string value = trim (line.substr (pos + 1));
36:          cout << "key   = \"" << key << "\"" << endl;
37:          cout << "value = \"" << value << "\"" << endl;
38:       }
39:    }
40:    return 0;
41: }
42:
43: /*
44: //TEST// (echo '     # comment   ';
45: //TEST//  echo '                  ';
46: //TEST//  echo '    No equal in this line.          ';
47: //TEST//  echo '   key key key  =  value value value ';
48: //TEST//  echo 'only key here =      ';
49: //TEST//  echo '  = only value here     ';
50: //TEST//  echo '   =   '
51: //TEST// ) | splitline >splitline.out 2>&1
52: //TEST// mkpspdf splitline.ps splitline.cpp* splitline.out
53: */
```

```
1: @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ mkc: starting splitline.cpp
2: splitline.cpp:
3:       $Id: splitline.cpp,v 1.26 2014-04-24 14:18:14-07 - - $
4: g++ -g -O0 -Wall -Wextra -rdynamic -std=gnu++11 splitline.cpp -o splitli
ne -lglut -lGLU -lGL -lX11 -lrt -lm
5: rm -f splitline.o
6: @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ mkc: finished splitline.cpp
```

```
 1:
 2: line  = "    # comment   "
 3: Comment or blank line.
 4:
 5: line  = "                  "
 6: Comment or blank line.
 7:
 8: line  = "   No equal in this line.          "
 9: key   = "No equal in this line."
10: No value in this line.
11:
12: line  = "   key key key  =  value value value  "
13: key   = "key key key"
14: value = "value value value"
15:
16: line  = "only key here =     "
17: key   = "only key here"
18: value = ""
19:
20: line  = "  = only value here     "
21: key   = ""
22: value = "only value here"
23:
24: line  = "   =   "
25: key   = ""
26: value = ""
```