

```
1: // $Id: mapitor.cpp,v 1.10 2014-06-20 22:36:12-07 - - $
2:
3: //
4: // mapitor - put argv values into a map and iterate over them
5: //
6:
7: #include <cstdlib>
8: #include <iostream>
9: #include <map>
10: #include <string>
11:
12: using namespace std;
13:
14: using string_int_map = map<string,int>;
15:
16: void load_map (string_int_map &map, const char *const *const begin,
17:               const char *const *const end) {
18:     for (const char *const *itor = begin; itor != end; ++itor) {
19:         map.insert ({*itor, itor - begin});
20:     }
21: }
22:
23: void print_map (const string_int_map &map) {
24:
25:     cout << endl << "Forward iterator:" << endl;
26:     for (const auto& entry: map) {
27:         cout << "    " << entry.first << " " << entry.second << endl;
28:     }
29:
30:     cout << endl << "Reverse iterator:" << endl;
31:     for (auto ritor = map.crbegin(); ritor != map.crend(); ++ritor) {
32:         cout << "    " << ritor->first << " " << ritor->second << endl;
33:     }
34: }
35:
36: int main (int argc, char **argv) {
37:     string_int_map map;
38:     load_map (map, argv, argv + argc);
39:     print_map (map);
40:     return EXIT_SUCCESS;
41: }
42:
43: //TEST// ./mapitor foo bar baz qux quux >mapitor.lis
44: //TEST// mkpspdf mapitor.ps mapitor.cpp* mapitor.lis
45:
```

[illegible]

```
1:
2: Forward iterator:
3: ./mapitor 0
4:   bar 2
5:   baz 3
6:   foo 1
7:   quux 5
8:   qux 4
9:
10: Reverse iterator:
11:   qux 4
12:   quux 5
13:   foo 1
14:   baz 3
15:   bar 2
16: ./mapitor 0
```