```
#include <iostream>
1
     #include <string>
 3
     #include <map>
     #include <stdexcept>
     using namespace std;
     int main(int argc, char** argv)
 7
         map<string,int> m;
8
         m["Peace"]=9;
m["Hello"]=8;
m["War"]=-2;
9
10
11
          cout<<m["Hello"]<<endl; //8</pre>
12
          for(map<string,int>::iterator i=m.begin(); i!=m.end();i++)
13
14
              cout<<i->first<<" "<<i->second<<endl;</pre>
15
16
         }
17
          try{
          cout<<m.at("11111")<<endl;</pre>
18
19
          catch(const std::out_of_range& e)
20
21
          {
              cout << "error: "<<e.what()<<endl; // error: map::at</pre>
22
23
24
          cout<<m["111111"]<<endl; //0</pre>
          cout<<m.at("111111")<<endl; //0</pre>
25
          // C++11
26
         map<string, int> m3
27
28
              {
29
                   {
                        "Dijkstra", 1972
30
31
                   },
32
                   {
                        "Scott", 1976
33
34
                   },
35
                   {
                        "Wilkes", 1967
36
37
                   },
38
                   {
39
                        "Hamming", 1968
                   }
40
              };
41
          for(pair<string, int> kv: m3)
42
43
44
              cout << kv.first <<" -> "<< kv.second << endl;</pre>
45
          }
46
47
          //system("pause");
48
49
          return 0;
50
     }
```