```
1
 2
     #include <vector>
     #include <map>
 3
     #include <string>
 4
 5
     #include <iostream>
 6
     #include <utility>
 7
 8
     class Customer {
9
       public:
10
       std::string first;
11
       std::string last;
12
       long val;
13
      public:
14
       Customer (std::string f, std::string l, long v)
15
        : first(std::move(f)), last(std::move(l)), val(v) {
16
17
       std::string getFirst() const {
18
       return first;
19
20
       std::string getLast() const {
21
         return last;
22
23
       long getValue() const {
24
         return val;
25
       }
26
     };
27
28
     int main()
29
       std::map<int ,int> mi{ {1,2}, {5,7}};
30
31
       auto[pos, ok] = mi.emplace(6, 8);
32
       if(ok){
33
         const auto&[key,value] = *pos;
34
         std::cout <<key << "->"<<value<<std::endl;</pre>
35
       }
36
      std::vector<Customer> cs {{ "a", "b", 1}, {"c", "d", 2}};
37
38
      for(const auto&[f, 1, v]: cs){
39
        std::cout <<f << l<<v <<std::endl;
40
41
42
     }
43
```