```
1 #include <iostream>
 2 #include <string>
 3 #include <list>
 4
 5 using namespace std;
 6
 7 template <typename T>
8 void mostrar_lista(const list<T> &1)
9 {
       typename list<T>:::const_iterator p;
10
       for (p = 1.begin(); p != 1.end(); p++)
11
12
       {
            cout << *p << " ";
13
14
       }
15
       cout << endl;</pre>
16 }
17
18 template <typename T>
19 list<T> mezclar(const list<T> &l1, const list<T> &l2)
20 {
21
       list<T> ret;
22
       T aux;
23
       typename list<T>::const_iterator p;
24
       typename list<T>::const_iterator q;
25
       p = 11.begin();
26
       q = 12.begin();
27
       while (p != 11.end() && q != 12.end())
28
29
            if (*p < *q)
30
            {
31
                aux = *p;
32
                p++;
33
            }
34
           else
35
            {
36
                aux = *q;
37
                q++;
38
            }
39
40
           ret.push_back(aux);
41
       if (p == l1.end())
42
43
       {
44
            ret.push_back(*q);
45
           q++;
       }
46
       else
47
48
       {
49
            ret.push_back(*p);
50
            p++;
51
52
       return ret;
53 }
54 int main()
55 {
56
       list<int> aux;
57
       aux.push_back(0);
58
       aux.push_back(1);
59
       aux.push_back(1);
       aux.push_back(1);
60
```

```
61
       aux.push_back(1);
62
       aux.push_back(3);
       aux.push_back(8);
63
64
       list<int> aux2;
65
       aux2.push_back(-1);
       aux2.push_back(2);
66
67
       aux2.push_back(7);
68
       aux2.push_back(10);
69
       aux2.push_back(1);
       aux2.push_back(3);
70
71
       aux2.push_back(8);
       mostrar_lista(aux);
72
       mostrar_lista(aux2);
73
74
       list<int> aux3;
75
       aux3 = mezclar(aux, aux2);
       mostrar_lista(aux3);
76
77 }
```

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