```
1 #include "bintree.h"
 2 #include <iostream>
 3 #include <list>
 4 #include <vector>
 6 using namespace std;
 7
 8 template <class T>
9 class hash_table
10 {
11 private:
12
       vector<list<T>> fondo;
13
14 public:
       class iterador
15
16
       {
17
       private:
           typename list<T>::iterator it_list;
18
19
           int pos_vector;
20
           list<T> aux;
21
22
       public:
23
           iterador &operator++();
24
           iterador &operator--()
25
           {
               if (it_list == fondo[pos_vector].begin())
26
27
28
                    assert(pos_vector == 0);
29
                    pos vector--;
30
                    it_list = fondo[pos_vector].end();
31
32
               it_list--;
33
               return *this;
34
35
           bool operator==(const iterador &otro) const;
           bool operator!=(const iterador &otro) const;
36
37
           T &operator*();
           iterador &operator=(const iterador &otro);
38
39
           friend class hash_table<T>;
40
41
       };
42
       iterador begin()
43
       {
44
           iterador i;
45
           i.pos_vector = 0;
           i.it = fondo.front().begin();
46
47
48
           return i;
49
       };
50
       iterador end()
51
52
           iterador i;
53
           i.pos_vector = fondo.size() - 1;
54
           i.it = fondo.back().end();
55
       };
56 };
57
58 int main()
59 {
60 }
```

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