```cpp
1
2  #include "SortableIntVector.h"
3  #include "ShakerSortableIntVector.h"
4
5  using namespace std;
6
7
8
9  ShakerSortableIntVector::ShakerSortableIntVector(const int aArrayOfIntegers[], ⮐
       size_t aNumberOfElements) : SortableIntVector::SortableIntVector        ⮐
     (aArrayOfIntegers, aNumberOfElements)
10 {}
11
12
13 void ShakerSortableIntVector::sort(Comparable aOrderFunction)
14 {
15     int start = 0;
16     int end = size() - 1;
17     while (start < end)
18     {
19         for (int i = start; i < end; ++i)
20         {
21             if (aOrderFunction(get(i), get(i + 1)))     // if the comparable   ⮐
                 returns true
22             {
23                 swap(i, i + 1);          //swap the values
24             }
25         }
26         --end;
27
28         for (int i = end - 1; i >= start; --i)
29         {
30             if (aOrderFunction(get(i), get(i + 1)))     // if the comparable   ⮐
                 returns true
31             {
32                 swap(i, i + 1);          //swap the values
33             }
34         }
35         ++start;
36     }
37 }
38
39
```