

```
1  #include "CocktailShakerSort.h"
2  #include "IntVector.h"
3
4  using namespace std;
5
6  void CocktailShakerSort::operator()(IntVector& aContainer) const
7  {
8      int beginIndex = 0;
9      int endIndex = aContainer.size() - 1;
10
11     while (beginIndex < endIndex)
12     {
13         for (int i = beginIndex; i < endIndex; i++)
14         {
15             int a = aContainer[i];
16             int b = aContainer[i + 1];
17
18             if (aContainer[i] > aContainer[i + 1])
19             {
20                 aContainer.swap(i, i + 1);
21             }
22         }
23
24         endIndex -= 1;
25
26         for (int i = endIndex; i > beginIndex; i--)
27         {
28             int a = aContainer[i];
29             int b = aContainer[i - 1];
30
31             if (aContainer[i] < aContainer[i - 1])
32             {
33                 aContainer.swap(i, i - 1);
34             }
35         }
36
37         beginIndex += 1;
38     }
39 }
```