```
1 #include <iostream>
2 #include <string>
3 #include <vector>
4 #include <algorithm>
5 #include <sstream>
7 //using namespace std;
8
9 bool createSet(const std::string &, std::vector<int> &, std::vector <int> &);
10 void display(const std::vector<int> &);
11
12
  int main() {
13
14
      std::string input;
15
      std::vector<int> SetA, SetB;
16
17
      // Input a line from console into a string
18
      std::getline(std::cin, input);
19
20
      if (createSet(input, SetA, SetB)) {
21
          sort(SetA.begin(), SetA.end());
22
          display(SetA);
23
24
          sort(SetB.begin(), SetB.end());
25
          display(SetB);
26
      }
      else
27
28
          std::cout << "Error" << std::endl;</pre>
29
      return 0;
30 }
31
32
33
34
35
36
37
38
39
41
  // Prints the vector elements separated by a white space.
43
44
  void display(const std::vector<int> & V) {
45
      for (auto n : V)
46
          std::cout << n << " ";
47
  }
48
49
50
51
52
53
54
55
56
57
58
```

```
60 // Read from a string and create 2 sets of int, Va and Vb.
61 // Returns true that's successful.
63
64 using namespace std;
65
66 bool createSet(const string & input, vector<int> & SetA, vector <int> & SetB) {
67
      int n;
68
      char c;
69
70
      // Create and initialize a stream from a string
      std::stringstream stream(input);
71
72
      // from the stream data can be taken with the >> operator, like for cin
73
74
      while (stream >> c) {
75
         if (c == 'a') {
76
             stream >> n;
77
             SetA.push_back(n);
         }
78
79
         else if (c == 'b') {
            stream >> n;
80
81
             SetB.push_back(n);
         }
82
         else
83
84
            return false;
      }
85
86
      return true;
87 }
```