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1  #include <iostream>
2  #include <string>
3  #include <vector>
4  #include <algorithm> // to use sort
5
6  using namespace std;
7
8
9  // The most naive solution is to read the input into a string and then
10 // manually scraping data: read a letter (a or b) then read digits until
11 // the next space, then convert to number, save the number, and repeat...
12 // It can become a tedious task for a long sequence and it's not very elegant.
13
14 // In this version this naive solution is implemented.
15
16 // Note_ passing vectors and strings to a function works by value unlike arrays.
17 // const is used when the function is not supposed to make changes on
18 // the string or vector passed.
19
20 bool createSet(const string& s, vector<int>& Va, vector<int>& Vb);
21 void display(const vector<int>& V);
22
23 // Va and Vb may be global since different functions work with them
24 // and need to change their values.
25
26 int main() {
27     string s;
28     vector<int> Va, Vb;
29
30     // Input a line from console into s.
31     getline(cin, s);
32
33     if (createSet(s, Va, Vb)) {
34         sort(Va.begin(), Va.end());
35         display(Va);
36         sort(Vb.begin(), Vb.end());
37         display(Vb);
38     }
39     else
40         cout << "Error" << endl;
41     return 0;
42 }
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[illegible]