

```

1 #include <iostream>
2 #include <fstream>
3
4 using namespace std;
5
6 bool riga_ordinata(int* mat, int c, int i){
7     bool ord_crescente = true;
8     bool ord_decrescente = true;
9
10    for(int j=0;j<c-1;j++){
11        if(mat[i*c+j] >= mat[i*c+j+1])
12            ord_crescente = false;
13        if(mat[i*c+j] <= mat[i*c+j+1])
14            ord_decrescente = false;
15    }
16    return (ord_crescente || ord_decrescente);
17 }
18
19 bool controlla_ordinamento(const char* s){
20     ifstream in;
21     in.open(s);
22
23     if(!in)
24         return false;
25
26     int m;
27     in >> m; //dimensione matrice
28     if(!in || m<=0)
29         return false;
30
31     int *mat = new int[m*m];
32
33     for(int i=0;i<m;i++){
34         for(int j=0;j<m;j++){
35             in >> mat[i*m+j];
36             if(!in)
37                 return false;
38         }
39     }
40
41     in.close();
42
43     for(int i=0;i<m;i++){
44         if(riga_ordinata(mat,m,i)==false){
45             delete[] mat;
46             return false;
47         }
48     }
49
50     delete[] mat;
51     return true;
52 }
53
54 int main(){
55     bool res;
56     res= controlla_ordinamento("input-1.txt");
57     cout << "Risultato primo file " << res << endl;
58     res = controlla_ordinamento("input-2.txt");
59     cout << "Risultato secondo file " << res << endl;
60     return 0;
61 }

```