

**The Second Baltic Olympiad in Informatics
Riga (Latvia), 18 – 20 April 1996
SOLUTION**

barrels

THE FILLING OF BARRELS (Latvia)

The main principle of the algorithm is: after executing each command, we collect the barrels which are connected by pipes in groups at any moment. If a barrel is not connected to any other barrel, it creates a group consisting of it alone.

If the current command is "*Valve*", we must focus only on the correct grouping (because "*Overflow*" situation cannot raise during this operation), but if this command is "*Pour*", then we must check the common amount of liquid in the group and, if it increases to the maximum possible level in the current group, then "OVERFLOW" message is produced.