



## Permutating Cubes

**Task.** There are given 1000 cubes, aligned into row. One capital Latin letter is written on each cube. Is it possible to rearrange cubes in such a way that none of the letters would stay in the same place?

Motivate your solution and write an algorithm to solve it.

**Input.** One line containing 1,000 capital Latin letters with no spaces between them.

**Output.** One line containing 1,000 capital Latin letters with no spaces between them.

If no solution exists, output **NEGALIMA**.