## 993 - Product of digits

Time limit: 3.000 seconds

## Product of digits

For a given non-negative integer number $N$, find the minimal natural $Q$ such that the product of all digits of $Q$ is equal $N$.

## Input

The first line of input contains one positive integer number, which is the number of data sets.
Each subsequent line contains one data set which consists of one non-negative integer number $N$ ${ }_{0} \leq{ }_{N} \leq 10^{9}$.

## Output

For each data set, write one line containing the corresponding natural number $Q$ or ${ }^{`}-1$ ' if $Q$ does not exist.

## Sample Input

3
1
10
123456789

## Sample Output

1
25
-1

