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April Fools Day Contest 2022

A. Who Tested?

time limit per test: 1 second
memory limit per test: 256 megabytes
input: standard input
output: standard output

B. Mike's Sequence

time limit per test: 1 second
memory limit per test: 256 megabytes
input: standard input
output: standard output

You won't find this sequence on OEIS.

Input
One integer r ($-45 \le r \le 2999$).

Output
One integer.

Example

input
2999
output
3000

C. Pōja Verdon

time limit per test: 1 second
memory limit per test: 256 megabytes
input: standard input
output: standard output

Aenar has an array a consisting of n integers.

Input
The first line is the integer n ($1 \le n \le 100$).

The second line contains n integers a_i ($0 \le a_i \le 3979$) — the contents of the array.

Output
Output a single number.

D. Is it rated - 3

time limit per test: 1 second
memory limit per test: 256 megabytes
input: standard input
output: standard output

Input
The first line contains a string S.

The second line contains an integer X.

Constraints

- $|S| = 3$
- $0 \leq X \leq 10^9$
- The input is guaranteed to be valid.

E. Are You Safe?

Seven boys and seven girls from Athens were brought before King Minos. The evil king laughed and said "I hope you enjoy your stay in Crete".

With a loud clang, the doors behind them shut, and darkness reigned. The terrified children huddled together. In the distance they heard a bellowing, unholy roar.

Bravely, they advanced forward, to their doom.

Input
n ($1 \leq n \leq 100$) — the dimensions of the labyrinth.

Each of the next n lines contains a string of lowercase English letters of length n.

Example

input
10 atzxcodera mzhappyayc mineodteri trxesonaac mtollexcxc hjikeoutlc eascripsni rgvymnjcxm onzazwswwg geothermal
output
YES

F. In Every Generation...

In every generation there is a Chosen One. She alone will stand against the vampires, the demons, and the forces of darkness. She is the Slayer. — Joss Whedon

Input
A string s ($3 \leq |s| \leq 7$) consisting of lowercase English letters.

Output
A single string. If there is no answer, print "none" (without the quotes).

Example

input
tourist
output
ooggqjx

G. Six Characters

Aenar should go to the string's home.

Input

A string consisting of only 6 letters.

Output

A string consisting of only 6 characters.

Note

If many answers are possible, the jury will **still only accept one**!

H. Cross-Language Program

time limit per test: 2 seconds
memory limit per test: 256 megabytes
input: standard input
output: standard output

Write a program that is compilable simultaneously in two languages: C++ (GCC 10.3.1, -std=c++11) and FreePascal (3.0.4).

It absolutely does not matter what this program does, the only requirement is that it successfully compiles into an executable file in both C++ and Pascal.

Please use the language Text to submit your solution. Just choose Text as a language in the submission form.

The submitted file can't exceed 2048 bytes. It should compile fast on both compilers.

Input

No input.

Output

No output.