

Game

Three friends came up with a game for having fun in the break between the classes. One of them says a three-digit number and the others use it to form a mathematical expressions by using operators for sum and multiplication between the digits of that number.

The winner is the first one who finds the biggest number that is a result of the above mentioned rules.

Write a program 'game', which prints out that biggest number.

Input

Read from the standard input

- The first line of the input will be positive three-digit number **N**.

Output

Print on the standard output

- The result should be the calculated biggest number.

Sample tests

Input

185

Output

41

Input

111

Output
