

Problem H. Distinct Strings

Time limit 2000 ms

Mem limit 1048576 kB

Problem Statement

You are given a string S of length 3 consisting of lowercase English letters.

How many different strings can be obtained by permuting the characters in S ?

Constraints

- S is a string S of length 3 consisting of lowercase English letters.

Input

Input is given from Standard Input in the following format:

S

Output

Print the number of different strings that can be obtained by permuting the characters in S .

Sample 1

Input	Output
aba	3

By permuting the characters in $S = \text{aba}$, three different strings can be obtained: aab , aba , baa .

Sample 2

Input	Output
ccc	1

By permuting the characters in $S = \text{ccc}$, just one string can be obtained: ccc .

Sample 3

Input	Output
xyz	6

By permuting the characters in $S = xyz$, six different strings can be obtained: xyz , xzy , yxz , yzx , zxy , zyx .