**Abbreviations**

Max Score: 10

Hiroto’s friend is trapped in a locked chest. Hiroto is trying to figure out if he can brute force a password to get the chest open and save his friend.

Create a program that will help Hiroto count all of the possible password permutations.

* The password is made up of only uppercase letters. (A, B, C, D, etc)
* The password is made up of only the letters in the input word.

**Input Format**

The text that contains the letters of the password. (No spaces)

**Constraints**

0 < *output* < 2³²

**Output Format**

An *integer* of numbers that count the number of possible permutations that can be created by each test case.

**Sample Input 0**

HIROTO

**Sample Output 0**

360