## Problem 1 – Triple Rotation of Digits

In Kaspichan we drink a lot. One evening we drunk enough so we invented an interesting game: Someone says a number. The first person after him rotates the digits of this number by moving its last digit at its start (e.g. 12345 🡪 51234). The second person after that again rotates the number (e.g. 51234 🡪 45123). Finally the third person after him also rotates the number (e.g. 45123 🡪 34512). The obtained number then is sent by SMS to a fellow group of alcoholics who continue the game at their drink place.

Write a program that helps the Kaspichan drinkers to calculate the triple digits rotation of given number **K**. Note that zeroes could also take part in the play and the leading digits are lost after each rotation, e.g. the triple rotation of 180001 is 1180 (180001 🡪 118000 🡪 011800 🡪 11800 🡪 01180 🡪 1180).

### Input

The input data should be read from the console and consists of a single line holding an integer number **K**.

The input data will always be valid and in the format described. There is no need to check it explicitly.

### Output

The output data should be printed on the console.

The output should consist of a single line holding the number obtained after applying a triple digits rotation of the number **K**.

### Constraints

* The number **K** is in the range [1…999 999] inclusive.
* Allowed work time for your program: 0.1 seconds.
* Allowed memory: 16 MB.

### Examples

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Input** | **Output** |  | **Input** | **Output** |  | **Input** | **Output** |  | **Input** | **Output** |
| 51234 | 23451 |  | 180001 | 1180 |  | 443 | 443 | 53 | 35 |