Problem: Encryption

A company wants to transmit data over the telephone line, but they are concerned that their lines are tapped. All of their data is transmitted as four-digit integers. They have asked you to write a program that encrypts their data so that it may be transmitted more securely.

Your program should read a four-digit integer from a data file *(telephone.txt)* and encrypt it as follows:

Replace each digit by $((digit + 7) \mod 10)$.

Then, swap the first digit with the third, swap the second digit with the fourth, and print the encrypted integer.

An example session

Input (*telephone.txt*) 6254

Output:

The Encrypted Number is: 2139