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## STUDENT REPORT

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# DETAILS

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## Roll Number

TEMPBTech-ECE021

## **EXPERIMENT**

**Title** 

:02

ENCODE THE NUMBER

## Description

You work in the message encoding department of a national security agency. Every message that is sent from or received in your office is encoded. You have an integer N, and each digit of N is squared and the squares are concatenated together to encode the original number. Your task is to find and return an integer value representing the encoded value of the number.

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**input1:** An integer value N representing the number to be encoded.

### **Output:**

Return an integer value representing the encoded value of the number.

Sample Input:

167

Sample Output:

13649

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```
def encode_number(n):
        # Convert the number to a string to access each digit
        str_n = str(n)
        # Square each digit and concatenate the results
        encoded_str = ''.join(str(int(digit) ** 2) for digit in str_n)
        # Convert the concatenated string back to an integer
        encoded_value = int(encoded_str)
        return encoded_value
    # Input reading
    n = int(input().strip()) # Read the integer N
    # Calculate and print the result
    result = encode_number(n)
    print(result)
RESULT<
 5 / 5 Test Cases Passed | 100 \%
```