STUDENT REPORT

DETAILS

Name

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Roll Number

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EXPERIMENT

Title

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.

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

Source Code:

```
def encode_number(N):
    N_str = str(N)
    encoded_str = ''.join(str(int(digit) ** 2) for digit in N_str)
    return int(encoded_str)

# Example usage
if __name__ == "__main__":
    import sys

    N = int(sys.stdin.readline().strip())
    result = encode_number(N)
    print(result)
```

RESULT

5 / 5 Test Cases Passed | 100 %

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