

STUDENT REPORT

DETAILS

MADHU.K

Roll Number

3BR23EE057

EXPERIMEN

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.

405

Output:

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

Sample Input:

167

Sample Output:

13649

Source Code:

```
def encode_number(N):
    # Convert the number to a string to process each digit
    N_{str} = str(N)
    # Square each digit and concatenate the results
    encoded_str = ''.join(str(int(digit) ** 2) for digit in N_str)
    # Convert the concatenated string back to an integer
    return int(encoded_str)
# Example usage
if __name__ == "__main__":
    import sys
   N = int(sys.stdin.readline().strip()) # Read the input integer N
    result = encode_number(N)
    print(result)
```

3BR23EE057-Encode The Number

RESULT

5 / 5 Test Cases Passed | 100 %