



STUDENT REPORT

DETAILS

Name

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Roll Number

KUB23CSE131

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):
    # Convert N to string to iterate over 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

# Example usage
input_value = 167
output_value = encode_number(input_value)
print(output_value) # Output: 13649
```

RESULT

KUB

SE13

B23C

31 KU
SE13

CSE1
UB23

UB23
31 K

131 K
3 C