def encode\_number(N):

str\_N = str(N)

encoded\_str = ""

for digit in str\_N:

squared\_digit = int(digit) \*\* 2 # Square the digit

encoded\_str += str(squared\_digit)

encoded\_value = int(encoded\_str)

return encoded\_value

# Input reading

N = int(input())

result = encode\_number(N)

print(result)