def square(x):

    if x < 10:  
        return x \* x  
  
    n = len(str(x))  
    mid = n // 2  
  
    a = x // (10 \*\* mid)  
    b = x % (10 \*\* mid)  
  
    a2 = square(a)    
    b2 = square(b)    
    ab = square(a + b) - a2 - b2     
  
     
    return a2 \* (10 \*\* (2 \* mid)) + ab \* (10 \*\* mid) + b2  
  
  
n = int(input("Enter a number: "))  
  
print("Square is " + str(square(n)))