S.No: 27	Exp. Name: ***Product of maximum and minimum palindrome numbers in given list***	Date:2024-08-27

Aim:

In a small town named Palindromia, there's a coding event going on. The challenge in the event is to find and showcase the product of the maximum and minimum palindrome numbers from a list of numbers.

Can you showcase your talent by cracking the challenge?

Input Format:

- The input line reads space-separated integers.

Output Format:

- The output is an integer representing the product of maximum and minimum palindrome numbers. If there are no palindrome numbers in the given list, **print "0" (zero).**

Note: If there is only one palindromic number in the list, it will be considered both the maximum and minimum palindromic number. In such cases, the product of the maximum and minimum palindromic numbers will be the square of that single palindromic number.

Source Code:

Min_max_palindrome_product.py

```
def is_palindrome(n):
   s =str(n)
   return s == s[::-1]

def product_of_max_and_min_palindrome(numbers):
   palindromes = [ num for num in numbers if is_palindrome(num)]
   if not palindromes:
      return 0
   max_palindrome = max(palindromes)
   min_palindrome = min(palindromes)
   return max_palindrome * min_palindrome
input_line = input().strip()
numbers = list(map(int, input_line.split()))
result = product_of_max_and_min_palindrome(numbers)
print(result)
```

Execution Results - All test cases have succeeded!

Test Case - 1
User Output
121 15 78 11
1331

Test Case - 2
User Output
95 48 74 621 35
0