def Xor(str1, len1, num):

    # store value of first character

    ans = ord(str1[0])

    for i in range(1,len1):

        # Traverse string to find the XOR

        ans = (ans ^ (ord(str1[i])))

    # Return the XOR

    return ans

def And(str1, len1):

    # store value of first character

    ans = ord(str1[0])

    for i in range(1,len1):

        # Traverse string to find the AND

        ans = (ans & (ord(str1[i])))

    # Return the AND

    return ans

def Or(str1, len1):

    # store value of first character

    ans = ord(str1[0])

    for i in range(1,len1):

        # Traverse string to find the OR

        ans = (ans | (ord(str1[i])))

    # Return the OR

    return ans

# Driver code

str1 = input("Enter your value: ")

len1 = len(str1)

print(Xor(str1, len1, 127))

print(And(str1, len1, 127))

print(Or(str1, len1, 127))