class Solution:

def intToRoman(self, num: int) -> str:

# Create a list of tuples with integer values and their Roman symbols,

# ordered from largest to smallest. This includes special subtractive cases.

value\_symbols = [

(1000, "M"), (900, "CM"), (500, "D"), (400, "CD"), (100, "C"),

(90, "XC"), (50, "L"), (40, "XL"), (10, "X"), (9, "IX"),

(5, "V"), (4, "IV"), (1, "I")

]

result = []

for value, symbol in value\_symbols:

if num == 0:

break

# Use divmod to get the number of times the current symbol repeats

# and the new remainder.

count, num = divmod(num, value)

# Append the symbol repeatedly based on the count.

result.append(symbol \* count)

return "".join(result)