11. Find the Mean, Median, and Mode of a list of numbers

from collections import Counter

def mean(numbers):

return sum(numbers) / len(numbers)

def median(numbers):

numbers = sorted(numbers)

n = len(numbers)

mid = n // 2

if n % 2 == 0:

return (numbers[mid - 1] + numbers[mid]) / 2

else:

return numbers[mid]

def mode(numbers):

counts = Counter(numbers)

max\_count = max(counts.values())

modes = [num for num, count in counts.items() if count == max\_count]

if len(modes) == len(numbers):

return "No mode"

return modes

# Example usage:

nums = [1, 2, 2, 3, 4, 4, 4, 5]

print(f"Mean: {mean(nums)}")

print(f"Median: {median(nums)}")

print(f"Mode: {mode(nums)}")