import pandas as pd

# Define a period for January 2024

period\_start = pd.Period('2024-01', freq='M')

# Calculate future period by adding 3 months

future\_period = period\_start + 3

print("Future Period:", future\_period)

# Calculate past period by subtracting 2 months

past\_period = period\_start - 2

print("Past Period:", past\_period)

# Construct a range of periods for the whole year 2024

periods\_range = pd.period\_range(start='2024-01', end='2024-12', freq='M')

print("Periods Range:", periods\_range)