import pandas as pd

data = [10, 20, 30, 40, 50, 60]

index = pd.MultiIndex.from\_tuples([('A', 1), ('A', 2), ('B', 1), ('B', 2), ('C', 1), ('C', 2)])

series = pd.Series(data, index=index)

print("Series with MultiIndex:")

print(series)

subset\_A = series.loc['A']

print("\nSubset A:")

print(subset\_A)

subset\_A\_inner\_2 = series.loc[('A', 2)]

print("\nSubset A, Inner 2:")

print(subset\_A\_inner\_2)

subset\_B = series.loc['B']

print("\nSubset B:")

print(subset\_B)

subset\_C\_inner\_1 = series.loc[('C', 1)]

print("\nSubset C, Inner 1:")

print(subset\_C\_inner\_1)

subset\_B\_xs = series.xs('B')

print("\nSubset B using xs:")

print(subset\_B\_xs)

subset\_inner\_2 = series.xs(2, level=1)

print("\nSubset Inner Level 2 using xs:")

print(subset\_inner\_2)