import pandas as pd

def multiply\_matrix(input\_df):

# Define the custom function to be applied to each element in the DataFrame

def modify\_value(value):

if value > 20:

return round(value \* 0.75, 1)

else:

return round(value \* 1.25, 1)

# Apply the custom function element-wise to the entire DataFrame

modified\_df = input\_df.applymap(modify\_value)

return modified\_df

# Example usage:

# Assuming df is the DataFrame from Question 1

# df = ...

# Call the function to get the modified DataFrame

modified\_result = multiply\_matrix(df)

# Display the modified DataFrame

print(modified\_result)



