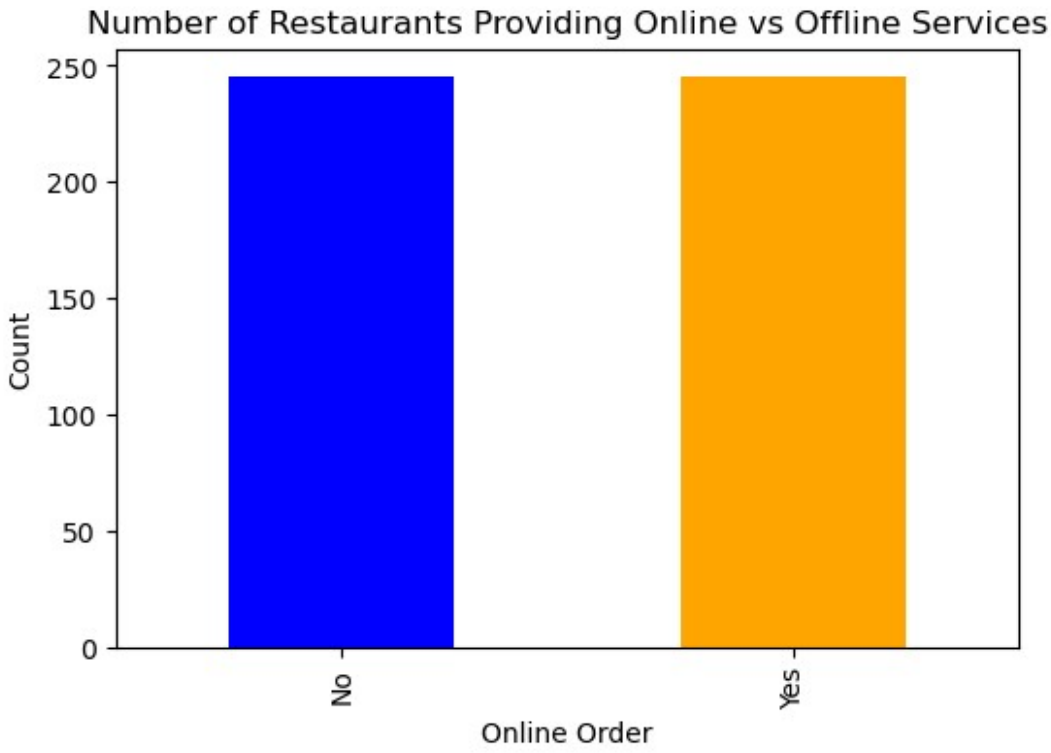
```python
import pandas as pd
import matplotlib.pyplot as plt

# Creating DataFrames
table1 = pd.read_csv("location_online.csv")
table2 = pd.read_csv("location_type.csv")
print(table1.head())
print(table2.head())
```

```
       location online_order  total
0           BTM           No    802
1           BTM          Yes   1682
2  Banashankari           No    260
3  Banashankari          Yes    311
4     Banaswadi           No    208
  location      type  name
0      BTM    Buffet    15
1      BTM     Cafes    46
2      BTM  Delivery  1418
3      BTM  Desserts   110
4      BTM  Dine-out   866
```

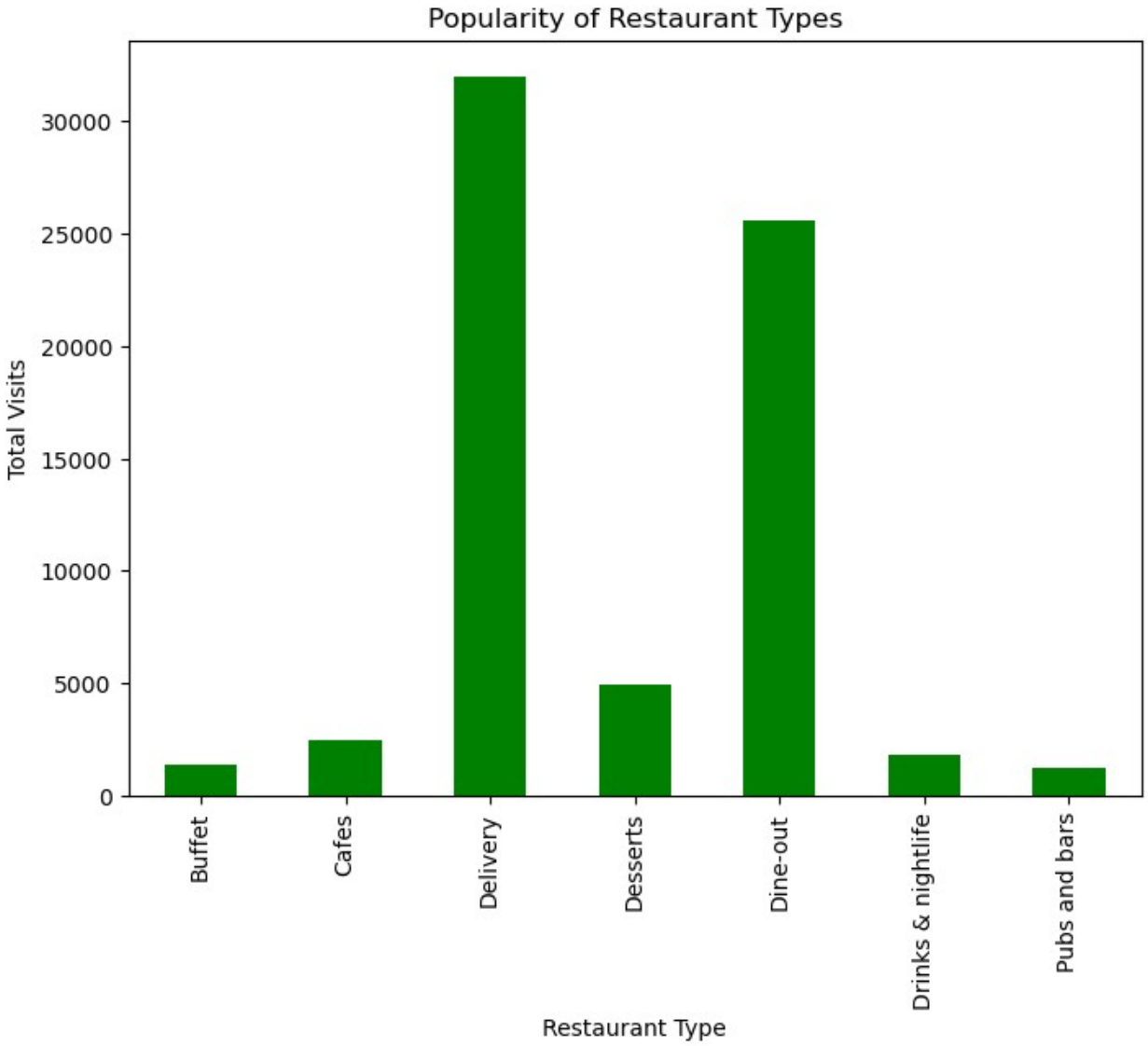
```python
# Merging the tables on 'location'
merged_df = pd.merge(table1, table2, on='location')

# Question 1: Do a greater number of restaurants provide online
delivery as opposed to offline services?
online_delivery_counts = merged_df['online_order'].value_counts()
plt.figure(figsize=(6, 4))
online_delivery_counts.plot(kind='bar', color=['blue', 'orange'])
plt.xlabel('Online Order')
plt.ylabel('Count')
plt.title('Number of Restaurants Providing Online vs Offline
Services')
plt.show()
print(f"Online Delivery Counts:\n{online_delivery_counts}")
```




```
Online Delivery Counts:
online_order
No     245
Yes    245
Name: count, dtype: int64
```

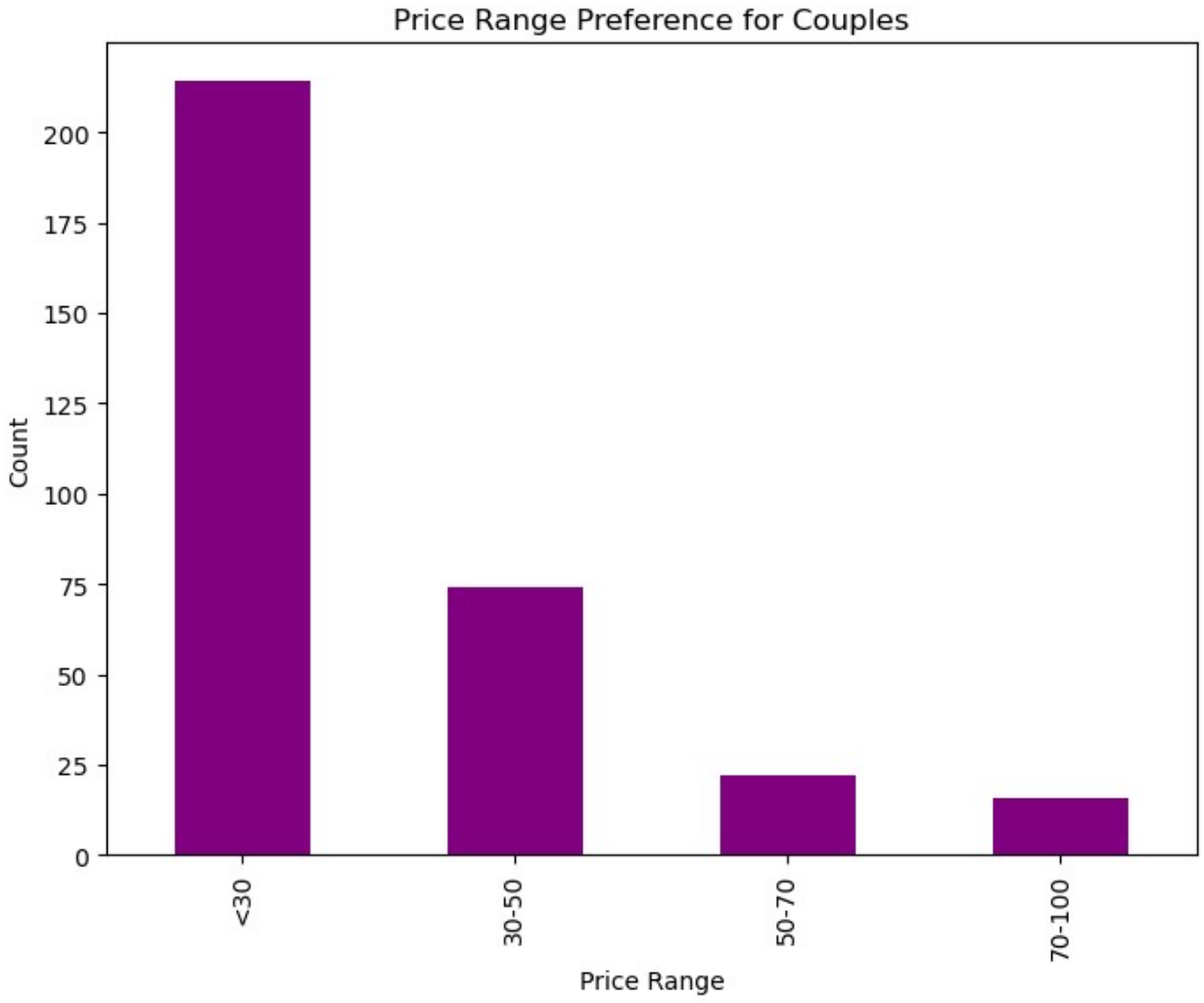
```
# Question 2: Which types of restaurants are the most favored by the
general public?
type_popularity = merged_df.groupby('type')['name'].sum()
plt.figure(figsize=(8, 6))
type_popularity.plot(kind='bar', color='green')
plt.xlabel('Restaurant Type')
plt.ylabel('Total Visits')
plt.title('Popularity of Restaurant Types')
plt.show()
print(f"Restaurant Type Popularity:\n{type_popularity}")
```




```
Restaurant Type Popularity:
type
Buffet                  1338
Cafes                   2476
Delivery               31990
Desserts                4904
Dine-out               25566
Drinks & nightlife      1804
Pubs and bars           1194
Name: name, dtype: int64
```

```
# Question 3: What price range is preferred by couples for their
dinner at restaurants?
# Assuming price ranges are included in the table (for example
purposes, we will use 'total' column)
```

```
price_ranges = ['<30', '30-50', '50-70', '70-100']
merged_df['price_range'] = pd.cut(merged_df['name'], bins=[0, 30, 50,
70, 100], labels=price_ranges)
price_preference = merged_df['price_range'].value_counts(sort=False)
plt.figure(figsize=(8, 6))
price_preference.plot(kind='bar', color='purple')
plt.xlabel('Price Range')
plt.ylabel('Count')
plt.title('Price Range Preference for Couples')
plt.show()
print(f"Price Range Preference:\n{price_preference}")
```




```
Price Range Preference:
price_range
<30       214
30-50      74
50-70      22
```

```
70-100     16
Name: count, dtype: int64
```