```
In [ ]:  Nurshanov Dias IT3-2208
         python 7 lab
```

```
In [49]:  Create a results table (order by the count of gold medals) of Summer Olympic Games in the particular years: 191:
          with respect to the medals type and country.
          1) join medals and ioc_codes
          2) 1912,1972,2000
          3) order count of gold medals
```

zsh:1: number expected

```
In [50]:  import pandas as pd
          editions = pd.read_csv("Summer Olympic medalists 1896 to 2008 - EDITIONS.tsv", sep="\t", engine='python')
          editions = editions[['Edition', 'Grand Total', 'City', 'Country']]

          ioc_codes = pd.read_csv('Summer Olympic medalists 1896 to 2008 - IOC COUNTRY CODES.csv')
          ioc_codes = ioc_codes[['Country', 'NOC']]

          medals = pd.read_csv('Summer Olympic medalists 1896 to 2008 - ALL MEDALISTS.tsv', sep='\t', header=4)
          medals = medals[['Athlete', 'NOC', 'Medal', 'Edition']]
```

```
In [51]:  ioc_codes.head()
```

Out[51]:

	Country	NOC
0	Afghanistan	AFG
1	Albania	ALB
2	Algeria	ALG
3	American Samoa*	ASA
4	Andorra	AND

```
In [52]:  medals.head()
```

Out[52]:

	Athlete	NOC	Medal	Edition
0	HAJOS, Alfred	HUN	Gold	1896
1	HERSCHMANN, Otto	AUT	Silver	1896
2	DRIVAS, Dimitrios	GRE	Bronze	1896
3	MALOKINIS, Ioannis	GRE	Gold	1896
4	CHASAPIS, Spiridon	GRE	Silver	1896

```
In [53]:  editions.head()
```

Out[53]:

	Edition	Grand Total	City	Country
0	1896	151	Athens	Greece
1	1900	512	Paris	France
2	1904	470	St. Louis	United States
3	1908	804	London	United Kingdom
4	1912	885	Stockholm	Sweden

```
In [54]:  # 2) 1912,1972,2000
          medals = medals[medals['Edition'].isin([1912, 1972, 2000])]
          medals = medals.merge(ioc_codes, on='NOC', how='left')


          # 1) join medals and ioc_codes
          medals = (
              medals.groupby(['Edition', 'Country', 'Medal'])
              .size()
              .unstack(fill_value=0)
              .reset_index()
          )


          # 3) order count of gold medals
          medals = medals.sort_values(by='Gold', ascending=False)

          print(medals[['Edition', 'Country', 'Bronze', 'Gold', 'Silver']])
```

```
     Medal  Edition             Country  Bronze  Gold  Silver
132           2000       United States      52   130      66
13            1912              Sweden      25    86      62
117           2000              Russia      54    66      68
61            2000           Australia      54    60      69
57            1972       United States      43    53      59
..            ...                 ...      ...   ...     ...
123           2000           Sri Lanka       0     0       1
126           2000              Taiwan       4     0       1
128           2000  Trinidad and Tobago      1     0       1
133           2000             Uruguay       0     0       1
135           2000             Vietnam       0     0       1

[136 rows x 5 columns]
```