# 09. Most friended

**Given the following table, return a list of users and their corresponding friend count. Order the result by descending friend count, and in the case of a tie, by ascending user ID. Assume that only unique friendships are displayed.**

```
import pandas as pd
import numpy  as np

data    = {'user_1' : [1,1,1,2],
           'user_2' : [2,3,4,3]
          }
friends = pd.DataFrame(data)


print(f'friends:\n{friends}')
```

```
friends:
   user_1  user_2
0       1       2
1       1       3
2       1       4
3       2       3
```

```
df1=(pd.concat([friends['user_1'],friends['user_2']])
       .reset_index()
       .drop(columns=['index'])
       .rename(columns={0:'number_of_repetitions'})
)
print(f'number of repetitions:\n{df1}')
```

```
number of repetitions:
   number_of_repetitions
0                      1
1                      1
2                      1
3                      2
4                      2
5                      3
6                      4
7                      3
```

```
most_friended=(pd.concat([friends['user_1']
                          ,friends['user_2']
                         ]
                 )
                .reset_index()
                .drop(columns=['index'])
                .rename(columns={0:'friend_id'})
                .groupby('friend_id')
                .size()
```

```
                .sort_values(ascending=False)
)
print(f'number of friends by each user:\n')
most_friended
```

```
number of friends by each user:
```

| friend_id | 0 |
|---|---|
| **1** | 3 |
| **2** | 2 |
| **3** | 2 |
| **4** | 1 |

**dtype:** int64