Problem 2

Convert the series `ser` into a dataframe with its index as another column on the dataframe.

```
import numpy as np
import pandas as pd
# input
mylist = list('abcedfghijklmnopqrstuvwxyz')
myarr = np.arange(26)
mydict = dict(zip(mylist, myarr))
ser = pd.Series(mydict)
print(ser[:5])

df = ser.to_frame().reset_index()
df
```

Problem 3

Combine ser1 and ser2 to form a dataframe with two columns.

```
import numpy as np
import pandas as pd
# input
ser1 = pd.Series(list('abcedfghijklmnopqrstuvwxyz'))
ser2 = pd.Series(np.arange(26))
df = pd.concat([ser1, ser2], axis=1)
df
```

Problem 4

Get all items of ser1 and ser2 not common to both.

```
import numpy as np
import pandas as pd
# input
ser1 = pd.Series([1, 2, 3, 4, 5])
ser2 = pd.Series([4, 5, 6, 7, 8])
union = pd.Series(np.union1d(ser1, ser2))
intersect = pd.Series(np.intersect1d(ser1, ser2))
notcommonseries = union[~union.isin(intersect)]
print(notcommonseries)
```