```
import numpy as np
 In [2]:
         import pandas as pd
         df=pd.DataFrame(np.random.randn(5,3),index=['a','c','e','f','h'],columns=['d']
         print(df)
                  one
                            two
                                    three
            0.245966 -0.037729
                                 0.716599
         c -0.458687
                                 1.169503
                       0.034530
            0.222792
                      1.142089
                                 0.670718
         f -0.412046 0.384853
                                 2.196847
            0.044213 -0.482927 -0.938850
         a=df.reindex(['a','b','c','d','e','f','g','h'])
In [31]:
         print(a)
                                    three
                  one
                            two
            0.245966 -0.037729
                                 0.716599
         а
         b
                  NaN
                            NaN
                                      NaN
                       0.034530
           -0.458687
                                 1.169503
         C
         d
                  NaN
                            NaN
                                      NaN
         е
            0.222792
                       1.142089
                                 0.670718
           -0.412046
                       0.384853
                                 2.196847
                 NaN
                            NaN
                                      NaN
         h
            0.044213 -0.482927 -0.938850
 In [6]:
         b=df
         print(b)
                  one
                            two
                                    three
            0.245966 -0.037729
                                 0.716599
         а
         b
                  NaN
                            NaN
                                      NaN
         c
           -0.458687
                       0.034530
                                 1.169503
         d
                  NaN
                            NaN
                                      NaN
            0.222792
                       1.142089
                                 0.670718
         е
           -0.412046
                       0.384853
                                 2.196847
                  NaN
                            NaN
                                      NaN
            0.044213 -0.482927 -0.938850
In [10]: print(df.dropna())
                  one
                            two
                                    three
           0.245966 -0.037729
                                 0.716599
         c -0.458687
                       0.034530
                                 1.169503
         e 0.222792
                       1.142089
                                 0.670718
         f -0.412046
                       0.384853
                                 2.196847
         h 0.044213 -0.482927 -0.938850
```

```
In [12]:
         df2=b
         print(df2)
                 one
                           two
                                   three
            0.245966 -0.037729
                                0.716599
         b
                 NaN
                           NaN
                                     NaN
         C
           -0.458687
                      0.034530
                                1.169503
         d
                 NaN
                           NaN
                                     NaN
           0.222792
                      1.142089
                                0.670718
         f -0.412046
                      0.384853
                                2.196847
                           NaN
           0.044213 -0.482927 -0.938850
In [13]:
         print(df2.fillna(method='pad'))
                 one
                           two
                                   three
           0.245966 -0.037729
                                0.716599
           0.245966 -0.037729 0.716599
         c -0.458687 0.034530 1.169503
         d -0.458687 0.034530 1.169503
           0.222792
                      1.142089 0.670718
         f -0.412046 0.384853 2.196847
         g -0.412046 0.384853 2.196847
            0.044213 -0.482927 -0.938850
In [15]:
         df4=df2
         print(df4.fillna(method='bfill'))
                 one
                           two
                                   three
           0.245966 -0.037729
                                0.716599
         b -0.458687
                      0.034530 1.169503
         c -0.458687
                      0.034530 1.169503
           0.222792 1.142089
                                0.670718
           0.222792
                     1.142089 0.670718
         f -0.412046 0.384853
                                2.196847
           0.044213 -0.482927 -0.938850
            0.044213 -0.482927 -0.938850
In [18]: print(df['one'].isnull())
              False
         а
         b
               True
              False
         C
               True
         d
              False
         e
         f
              False
               True
         g
              False
         Name: one, dtype: bool
```