```
In [10]: mylist = [7, 2, 0, 3, 4, 2, 5, 0, 3, 4]
    i = 0
    y = []
    for x in 1:
        if x != 0:
              i = i + 1
        else:
              i = 0
              y.append(i)
    y

Out[10]: [1, 2, 0, 1, 2, 3, 4, 0, 1, 2]

In [2]: import pandas as pd
    s = pd.Series([7, 2, 0, 3, 4, 2, 5, 0, 3, 4])
        (s.groupby(s.eq(0).cumsum().mask(s.eq(0))).cumcount() + 1).mask(s.eq(0), 0).to
        list()
Out[2]: [1, 2, 0, 1, 2, 3, 4, 0, 1, 2]
```

```
In [19]: import numpy as np
mydti = pd.date_range(start='2015-01-01', end='2015-12-31', freq='B')
s = pd.Series(np.random.rand(len(mydti)), index=mydti)
s
```

Out[19]:	2015-01-01	0.285151
	2015-01-02	0.362307
	2015-01-05	0.685471
	2015-01-06	0.737332
	2015-01-07	0.458355
	2015-01-08	0.430333
	2015-01-09	0.455301
	2015-01-12	0.526278
	2015-01-13	0.653731
	2015-01-14	0.691939
	2015-01-15	0.480330
	2015-01-16	0.817594
	2015-01-19	0.667449
	2015-01-20	0.192651
	2015-01-21	0.272776
	2015-01-22	0.852543
	2015-01-23	0.567112
	2015-01-26	0.113078
	2015-01-27	0.105644
	2015-01-28	0.744900
	2015-01-29	0.417822
	2015-01-30	0.622133
	2015-02-02	0.081471
	2015-02-03	0.463224
	2015-02-04	0.654864
	2015-02-05	0.975416
	2015-02-06	0.606594
	2015-02-09	0.958875
	2015-02-10	0.101988
	2015-02-11	0.535301
	2013 02 11	0.555501
	2015-11-20	0.329431
	2015-11-23	0.798501
	2015 11 25	0.833220
	2015-11-25	
	2015-11-25	0.484855 0.074337
	2015-11-20	0.605465
	2015-11-30 2015-12-01	0.143751 0.168188
	2015-12-01	
		0.885129
	2015-12-03	0.378361
	2015-12-04	0.153456
	2015-12-07	0.575323
	2015-12-08	0.422731
	2015-12-09	0.544545
	2015-12-10	0.388016
	2015-12-11	0.866112
	2015-12-14	0.545066
	2015-12-15	0.424560
	2015-12-16	0.876964
	2015-12-17	0.519806
	2015-12-18	0.274908
	2015-12-21	0.404071
	2015-12-22	0.824601
	2015-12-23	0.457531
	2015-12-24	0.188073
	2015-12-25	0.832751

```
2015-12-28
                        0.628803
         2015-12-29
                        0.696590
         2015-12-30
                        0.701032
         2015-12-31
                        0.760858
         Freq: B, Length: 261, dtype: float64
In [21]: s[s.index.weekday == 2].sum()
Out[21]: 28.56350536137436
In [25]: avg_M=s.resample('M').mean()
          avg_M
Out[25]: 2015-01-31
                        0.493264
         2015-02-28
                        0.495887
         2015-03-31
                        0.442868
         2015-04-30
                        0.521585
         2015-05-31
                        0.537034
         2015-06-30
                        0.521567
         2015-07-31
                        0.568609
         2015-08-31
                        0.507287
         2015-09-30
                        0.453464
         2015-10-31
                        0.499880
         2015-11-30
                        0.493434
         2015-12-31
                        0.544238
         Freq: M, dtype: float64
         s.groupby(pd.Grouper(freq='4M')).idxmax()
In [30]:
Out[30]: 2015-01-31
                       2015-01-22
         2015-05-31
                       2015-05-15
         2015-09-30
                      2015-06-01
                      2015-10-07
         2016-01-31
         dtype: datetime64[ns]
 In [ ]:
```