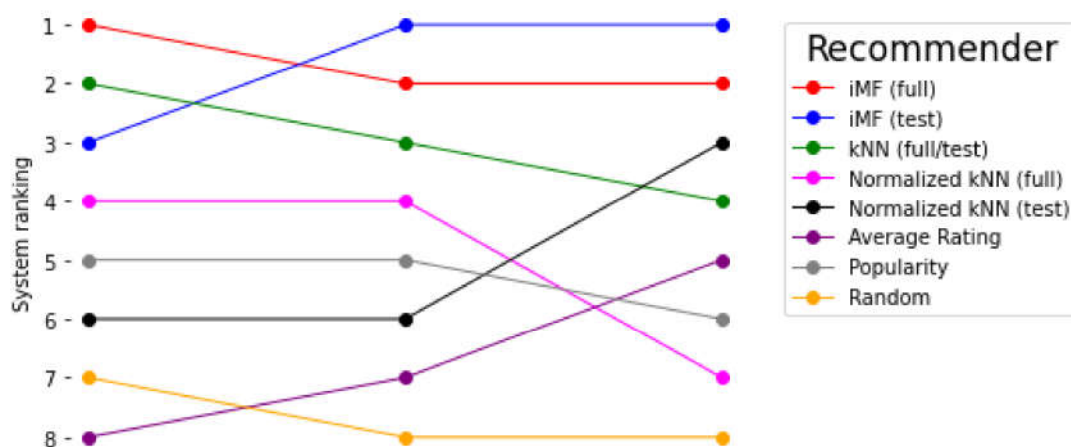```
Using pandas 1.0.5 version
Using seaborn 0.10.1 version
Using scipy 1.5.0 version
```

```
             Recommender      Full  Unbiased      Test
0              iMF (full)  0.167798  0.024865  0.575750
1              iMF (test)  0.150733  0.024854  0.580891
2         kNN (full/test)  0.160433  0.024123  0.572223
3     Normalized kNN (full)  0.111315  0.018947  0.556579
4     Normalized kNN (test)  0.003826  0.005382  0.576203
5          Average Rating  0.001527  0.003806  0.570567
6              Popularity  0.093249  0.014016  0.548701
7                  Random  0.003996  0.002525  0.531247
```

```
             Recommender      Full  Unbiased      Test
0              iMF (full)  0.056256  0.006630  0.170430
1              iMF (test)  0.052741  0.006707  0.170752
2         kNN (full/test)  0.054563  0.006448  0.170015
3     Normalized kNN (full)  0.043152  0.005426  0.168252
4     Normalized kNN (test)  0.001770  0.001711  0.169974
5          Average Rating  0.000770  0.001556  0.169530
6              Popularity  0.035141  0.004263  0.168067
7                  Random  0.001893  0.000870  0.166696
```

```
             Recommender      Full  Unbiased      Test
0              iMF (full)  0.233621  0.044083  0.664297
1              iMF (test)  0.222376  0.044467  0.664874
2         kNN (full/test)  0.228519  0.041968  0.663557
3     Normalized kNN (full)  0.185319  0.035540  0.659431
4     Normalized kNN (test)  0.006856  0.009605  0.663878
5          Average Rating  0.002982  0.008602  0.662840
6              Popularity  0.147028  0.026184  0.659782
7                  Random  0.006836  0.004751  0.656529
```

9 [<matplotlib.lines.Line2D at 0x29fe629d848>,
    <matplotlib.lines.Line2D at 0x29fe629de08>,
    <matplotlib.lines.Line2D at 0x29fe62912c8>,
    <matplotlib.lines.Line2D at 0x29fe6291608>,
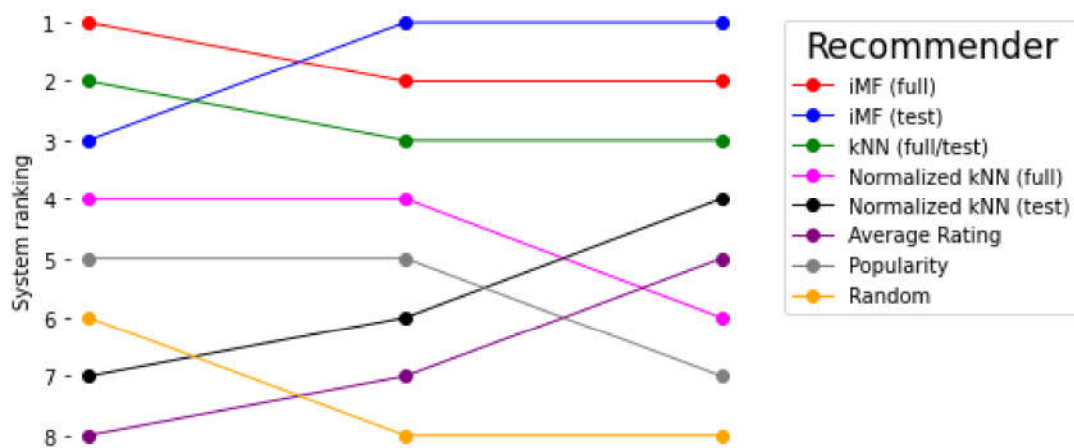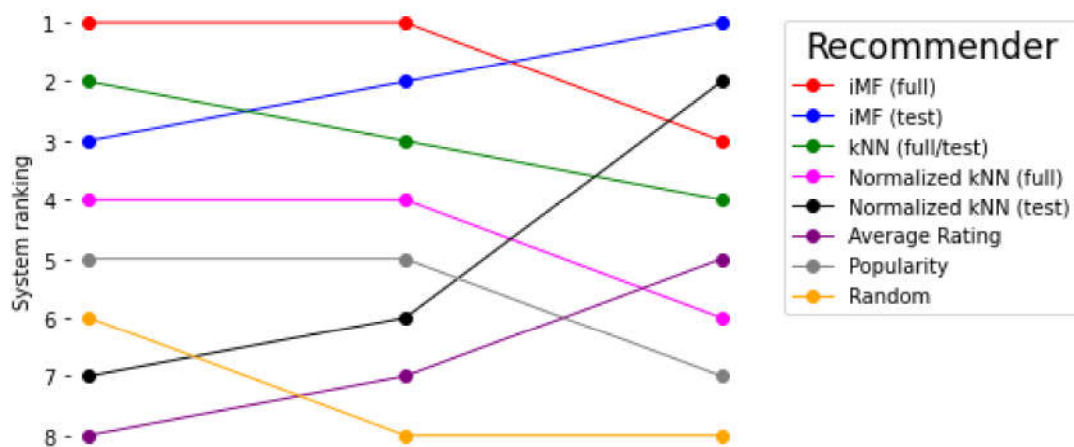   <matplotlib.lines.Line2D at 0x29fe6267ac8>,
    <matplotlib.lines.Line2D at 0x29fe628fbc8>,
    <matplotlib.lines.Line2D at 0x29fe61eee88>,
    <matplotlib.lines.Line2D at 0x29fe61eea08>]

10 [<matplotlib.lines.Line2D at 0x29fe63552c8>,
    <matplotlib.lines.Line2D at 0x29fe62eae88>,
    <matplotlib.lines.Line2D at 0x29fe6359888>,

```
<matplotlib.lines.Line2D at 0x29fe6359b08>,
<matplotlib.lines.Line2D at 0x29fe6359088>,
<matplotlib.lines.Line2D at 0x29fe6359b88>,
<matplotlib.lines.Line2D at 0x29fe6359988>,
<matplotlib.lines.Line2D at 0x29fe6314788>]
```


11 ```
[<matplotlib.lines.Line2D at 0x29fe640ac08>,
 <matplotlib.lines.Line2D at 0x29fe63b7a08>,
 <matplotlib.lines.Line2D at 0x29fe63eef88>,
 <matplotlib.lines.Line2D at 0x29fe63ee7c8>,
 <matplotlib.lines.Line2D at 0x29fe640f848>,
 <matplotlib.lines.Line2D at 0x29fe640f348>,
 <matplotlib.lines.Line2D at 0x29fe640fe48>,
 <matplotlib.lines.Line2D at 0x29fe640ff48>]
```

12 ```
<matplotlib.legend.Legend at 0x29fe6586588>
```