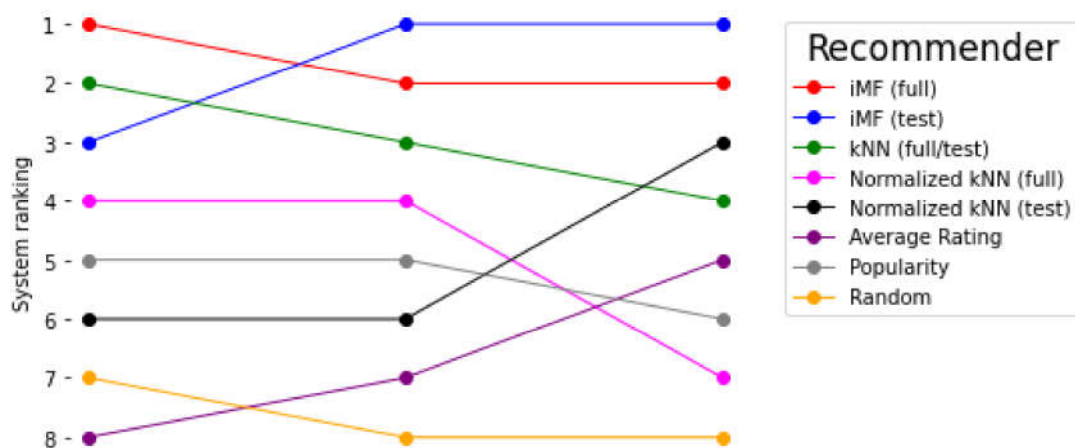


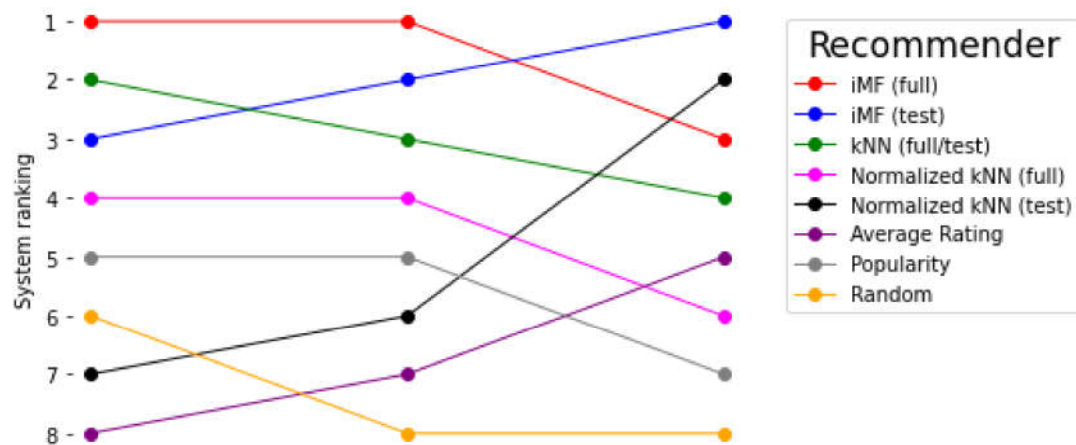
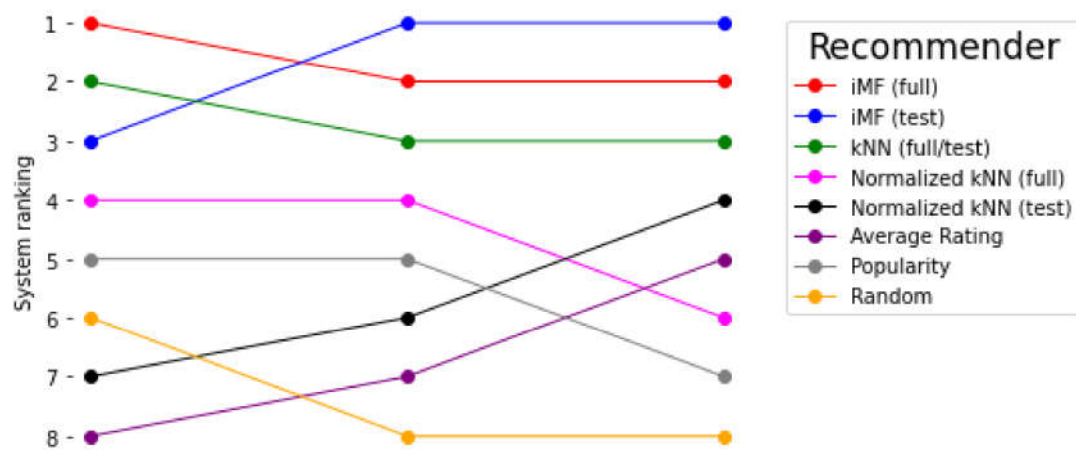
Using pandas 1.0.5 version  
Using seaborn 0.10.1 version  
Using scipy 1.5.0 version

	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





18 `Text(0, 0.5, 'System ranking')`

