

**Answers to Session 2, for file 2.txt**

**NOTE: You will be evaluated on file 1.txt**

**This table is provided so you can validate your code**

Top In-degrees ----- 2007 2008 United_States United_Kingdom France	In-degrees ----- 0.007685 0.006608 0.006596 0.005410 0.005156	Out-degrees ----- 0.000254 0.000012 0.000012 0.000218 0.001476
Top Out-degrees ----- .cf Book_of_Optics Bengali_language Dumfries,_VA Ahmad_Zarruq	In-degrees ----- 0.000048 0.000242 0.000351 0.000012 0.001404	Out-degrees ----- 0.003231 0.003171 0.002844 0.002759 0.002638
Top Hubs ----- .cf Book_of_Optics Bengali_language Erich_Schmidt_(archaeologist) 1999_NATO_bombing_of_the_ Federal_Republic_of_Yugoslavia	Hub centrality ----- 0.006991 0.006978 0.006846 0.006811 0.006803	Authority centrality ----- 0.000000 0.000078 0.000140 0.000001 0.000004
Top Authorities ----- Shams_Tabrizi Mahmud_Shabistari Al-Ghazali Shahab_al-Din_Suhrawardi Farid_al-Din_Attar	Hub centrality ----- 0.000277 0.000300 0.000000 0.000000 0.000000	Authority centrality ----- 0.006591 0.006580 0.006541 0.006472 0.006460
Top Katz ----- 2007 United_States 2008 France United_Kingdom	Katz centrality ----- 0.005583 0.005411 0.005085 0.004673 0.004544	

Top PageRank task 4, alpha 0.3 ----- United_States 2007 2008 Wikimedia_Commons United_Kingdom	PageRank ----- 0.003910 0.003640 0.003161 0.002515 0.002430	
Top PageRank task 4, alpha 0.99 ----- Portugal United_States 2007 2008 Gholam-Hosseini_Saedi	PageRank ----- 0.017289 0.015068 0.012198 0.009352 0.009268	
Top PageRank task 4, alpha 0.85 ----- Portugal United_States 2007 2008 Wikimedia_Commons	PageRank task 4 ----- 0.012437 0.012286 0.010234 0.008120 0.006970	
Top PageRank task 5, iteration 1 ----- United_States 2007 2008 Wikimedia_Commons United_Kingdom	PageRank task 5, iteration 1 ----- 0.009918 0.009756 0.008558 0.006418 0.006341	
Top PageRank task 5, iteration 2 ----- United_States Portugal 2007 2008 Gholam-Hosseini_Saedi	PageRank task 5, iteration 2 ----- 0.011153 0.010336 0.009297 0.007863 0.007329	

Top PageRank task 5, iteration 5 ----- Portugal United_States 2007 2008 Gholam-Hosseini_Saedi	PageRank task 5, iteration 5 ----- 0.012426 0.012242 0.010238 0.008130 0.007007	
Top PageRank task 5, iteration 10 ----- Portugal United_States 2007 2008 Wikimedia_Commons	PageRank task 5, iteration 10 ----- 0.012437 0.012286 0.010234 0.008120 0.006970	
Top PageRank task 5, iteration 100 ----- Portugal United_States 2007 2008 Wikimedia_Commons	PageRank task 5, iteration 100 ----- 0.012437 0.012286 0.010234 0.008120 0.006970	



