Computer assignment 2

Complex Networks 2

- 1. Write a code to generate the Erdős-Rényi graph with a given average degree. Using the code, generate the ER graphs of sizes N = 5000 for c = 0.5, c = 1, c = 2, c = 4. Plot the degree distribution of the generated graph, and plot the theoretical curve on top of it.
- 2. Write a code to plot the size of the giant component in ER graph as a function of the average degree. The generated plot should show the variation of S for c from 0 to 3.