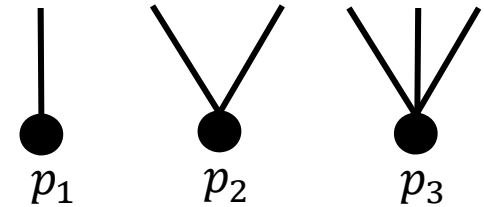$$\phi_c = \frac{\langle k \rangle}{\langle k^2 \rangle - \langle k \rangle}$$

Quiz 14

p_1 p_2 p_3

- Consider a configuration model network that has vertices of degree 1, 2, and 3 only, in fractions p_1, p_2, and p_3, respectively
- Find the value of the critical vertex occupation probability ϕ_c at which site percolation take place
- Show that there is no giant cluster for any value of the occupation probability ϕ if $p_1 > 3p_3$. Why does this result not depend on p_2 ?
- Please explain why your friends have more friends than you do.

- Submit from Tokyo Tech OCW-i
- Deadline: ??:??(Japan Standard Time) on Feb. 6(Wed)
- Files should be MS Word, PDF or Zipped Jupyter notebook