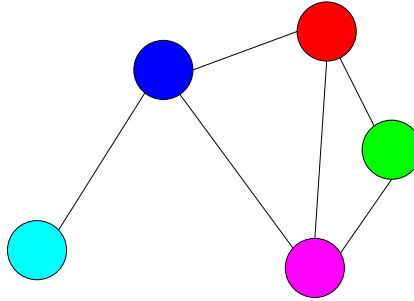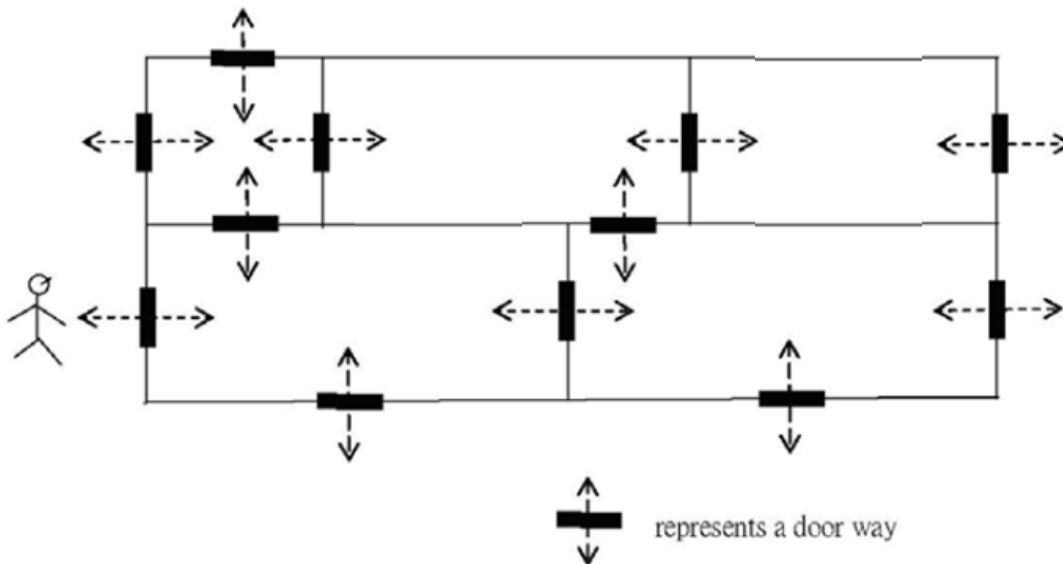## HOMEWORK PROBLEMS #1

**1-1** Consider the simple network shown below. Compute its average path length $L$, diameter $D$, cluster coefficient $C$, and average degree $\langle k \rangle$.



**1-2** In a laboratory shown by the following figure, can you walk through every door once and once only, and finally return to the starting point? If so, how? If not, why?



represents a door way

**This HW is due in class on Monday, 9 Sept. 2019**