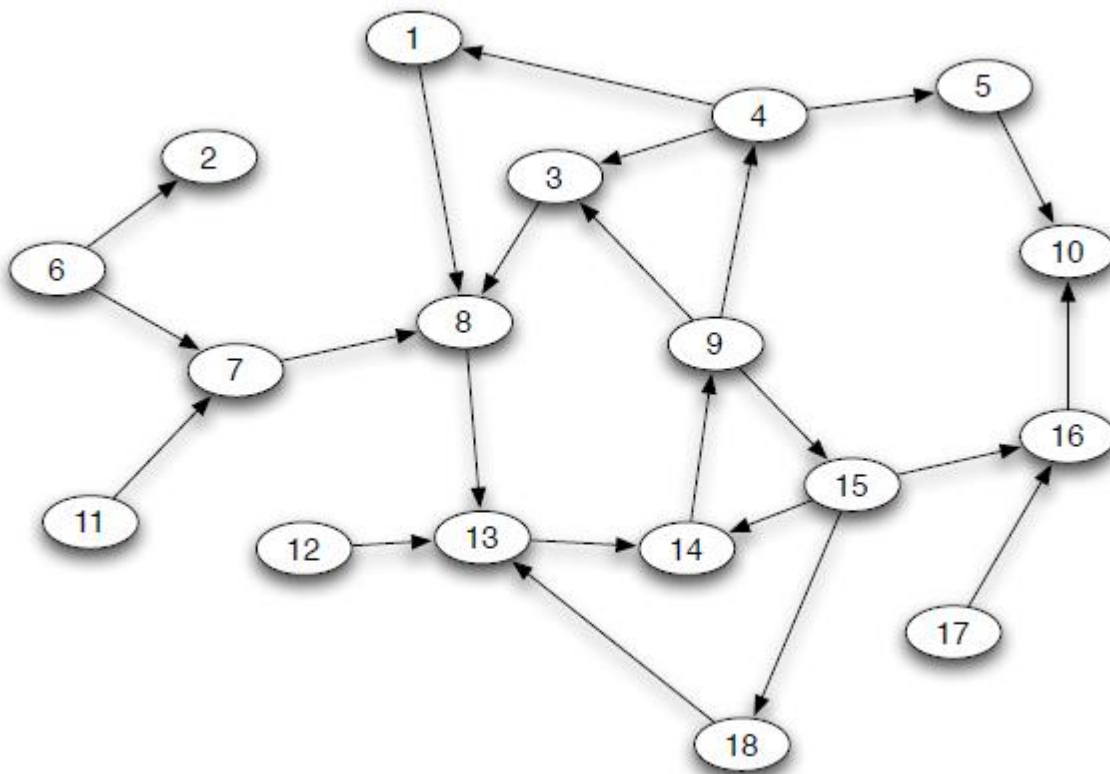


# National University of Computer and Emerging Sciences, Lahore Campus



Course:	Social Network Analysis	Course Code:	DS5115
Program:	MS(Data Science)	Semester:	Spring 2019
Duration:	10 Minutes	Total Marks:	10
Paper Date:	28-Feb-19	Weight	3
Section:	MS(DS)	Page(s):	1
Exam:	Quiz 1	Roll No:	

Consider the following graph/network



1. What vertices constitutes the SCC, IN and OUT set of the above network?
2. Name an edge you could add/delete from the above graph so as to **increase** the size of the largest strongly connected component
3. Name an edge you could add/delete from the above graph so as to **increase** the size of the IN set
4. Name an edge you could add/delete from the above graph so as to **decrease** the size of the OUT set