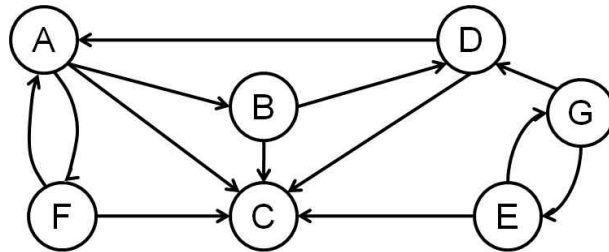


Algorithm Analysis Homework 4

Due by 5/9(Thu.) through hisnet

Write a program that compute transpose of following graph.



Input file for above graph is named as 'hw4.data' and available at hisnet. Input file represents data in adjacency matrix form as follows. (There are white spaces – such as tab or space – between data.)

	A	B	C	D	E	F	G
A	0	1	1	0	0	1	0
B	0	0	1	1	0	0	0
C	0	0	0	0	0	0	0
D	1	0	1	0	0	0	0
E	0	0	1	0	0	0	1
F	1	0	1	0	0	0	0
G	0	0	0	1	1	0	0

First, read input file and construct *Adj* array and adjacency list in alphabetical order. Then compute transpose of the graph.

The program should print out followings.

- 1) Array of adjacency list of above graph
- 2) Array of adjacency list of transpose graph after step2

Try to make your output as neat as possible, so that other person can see what you have done clearly. And you should use 'C' language for this and next homeworks as described in syllabus.