#include<stdio.h>

#include<stdlib.h>

int a[5][5];

void DFS(int a[5][5]; int visit[],int)

int main()

{

printf(“enter the adjacency list(0 if nodes are not connected and 1 if nodes are connected)”);

for(int i=0;i<5;i++)

{

for (int j=0;j<5;j++)

{

scanf(“%d”,&alist[i][j]);

}

}

int visit[5];

DFS(a[5][5],visit,0);

return 0;

}

void DFS(int a[5][5],int visit[],int start)

{

int stack[5],top=-1,k,I;

for(k=0;k<5;k++)

visit[k]=0;

stack[++top]=start;

visit[start]=1;

while(top!=-1)

{

start=stack[top--];

printf(“%c”,start+65);

for (i=0;i<5;i++)

{

if (a[start][i]&&visit[i]==0)

{

stack[++top]=I;

visit[i]=1;

break;

}

}

}