#include<stdio.h>

#include<stdlib.h>

int adj[5][5];

void BFS(int adj[5][5]; int visited[],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”,&adjlist[i][j]);

}

}

int visited[5];

BFS(adj[5][5],visited,0);

return 0;

}

void BFS(int adj[5][5],int visited[],int start)

{

int queue[5],front=-1,rear=-1,k,I;

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

visited[k]=0;

rear=rear+1;

queue[rear]=start;

front=front+1;

visited[start]=1;

while(rear>=front)

{

start=queue[front];

front=front+1;

printf(“%c”,start+65);

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

{

if (adj[start][i]&&visited[i]==0)

{

rear=rear+1;

queue[rear]=i;

visited[i]=1;

break;

}

}

}