DAA Lab End Semester Exam

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4th Semester
CSE
DAA End Semester Lab Exam
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3/6/2020
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```
#include <stdio.h>
#include <stdlib.h>

int vis[100], adj[100][100], queue[100],
front=-1, rear=-1, v, cycle=0;ascending,
                          descending;
void bfs()
{
    while(front!=rear)
    {
        int curr = queue[++front];
        if(vis[curr]==0)
        {
            printf("%d", curr);
            vis[curr]==0)
            vis[curr]=1;
            for(int j=0; j<v; j++)
            {
                if(adj[curr][j])
                {
                    if(!vis[j])
                    {
                        queue[++rear]=j;
                    }
                }
```

```
        else
        {
            cycle++;
        }
      }
    }
  }
  else
  {
    cycle++;
  }
 }
}

int main()
{
    int n, p, q, i, j;
    for(i=0; i<100; i++)
    {
        for(j=0; j<100; j++)
        {
            arr[i][j]=0;
        }
    }
    printf("No. of vertices : ");
    scanf("%d", &v);
    printf("No. of edges : ");
    scanf("%d", &n);
```


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```
printf("Enter edges in pairs like 3 4");
while(n--)
{
    scanf("%d %d",&p,&q);
    adj[p][q] = 1;
}
for(i=0; i<v; i++)
{
    vis[i] = 0;
}
printf("Order : ");
for(i=0; i<v; i++)
{
    if(!vis[i])
    {
        queue[++rear] = i;
        bfs();
    }
}
printf("%d\n", cycle);
if(ascending == v)
{
    printf("Increasing order");
}
else if(descending == v)
{
    printf("Descending order");
}
else { printf("Mixed Order"); }
return 0;
}
```