Problem: Week 5 - List order of nodes visited by a DFS

Description

Given a undirected graph =(V,E) in which V = {1,2,..,n} is the set of nodes. Write a program that visit nodes of G by a DFS (consider a lexicorgraphic order of nodes).

Input

- Line 1: contains 2 integers n and m (1 <= n,m <= 100000)
- Line i+1: contains u and v which are two end-points of the ith edge

Output

Sequence of nodes visited by DFS

Example

Input

7 12

1 2

1 3

2 3

2 4

2 7

3 5

3 7

4 5

4 6

4 7

5 6

5 7

Output

1 2 3 5 4 6 7

Sample TestCase

C 17

```
1  Write your Source code here
```

Source code

C 17

```c
//C
#include <stdio.h>

int main()
{

}
```

SUBMIT CODE

Currently, this contest problem is not open for submissions

Or

C 17

Select file

SUBMIT

Tìm kiếm

ID	Bài tập	Trạng thái	Message	Điểm
f777e8	DFS_LIST_ORDER_NODES	Accept		20

5 hàng 1-1 của 1