Problem: Week 5 - Sequence of nodes visited by BFS

Description

Given undirected graph G = (V,E) in which V = {1, 2, ..., n} is the set of nodes, and E is the set of m edges.

Write a program that computes the sequence of nodes visited using a BFS algorithm (the nodes are considered in a lexicographic order)

Input

- Line 1: contains 2 integers n and m which are the number of nodes and the number of edges
- Line i+1 (i = 1, ..., m): contains 2 positive integers u and v which are the end points of the ith edge

Output

Write the sequence of nodes visited by a BFS procedure (nodes a are separated by a SPACE character)

Example

Input

6 7

2 4

1 3

3 4

5 6

1 2

3 5

2 3

Output

1 2 3 4 5 6

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	Ng
fe64b1	BFS_LIST_NODES_LEX	Accept		40	CP
e3fa66	BFS_LIST_NODES_LEX	Partial		20	PY
6d86a1	BFS_LIST_NODES_LEX	Partial		20	PY

5 hàng 1-3 của 3