# CSE221: Algorithms

# Deadline: 21st September, 2016

Lab-01: Adjacency List and Adjacency Matrix

### **Task 01:**

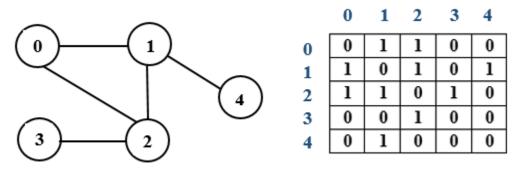
#### **Input:**

1. Read an undirected graph from a file with vertices and edges.

#### Output:

1. Corresponding Adjacency Matrix.

### Example:



Input Output

#### Sample input: Inputs must be taken from a file.

5 [# of nodes]

5 [# of edges]

[Edges]

01

02

10

1 2

14

20

2 1

23

3 2

4 1

# **Task 02:**

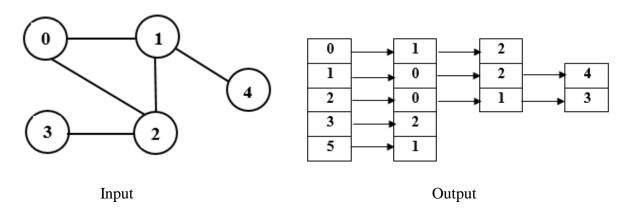
### Input:

2. Read a directed graph from a file with vertices and edges.

#### Output:

2. Corresponding Adjacency List.

## Example:



#### Sample input: Inputs must be taken from a file.

5 [# of nodes]

5 [# of edges]

[Edges]

0 1

02

10

1 2

14

20

2 1

23

3 2

4 1