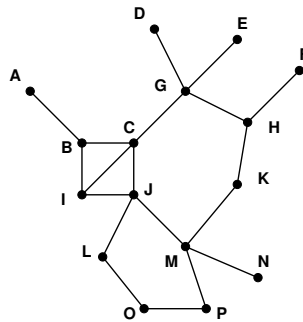


# M2 – NAM (Homework)

## Getting things started

We consider the following undirected graph  $G_u$ .



### Exercise 1 — *Graph*

Represent  $G_u$  graphs in the adjacency matrix and adjacency lists formats.

### Exercise 2 — *Degree*

Considering  $G_u$ , compute

- its degree distribution,
- its average degree.

### Exercise 3 — *Clustering*

Considering  $G_u$ , compute the clustering coefficients of nodes  $C, G, J$ .

### Exercise 4 — *BFS*

Apply a BFS algorithm starting at node  $J$  to this graph.