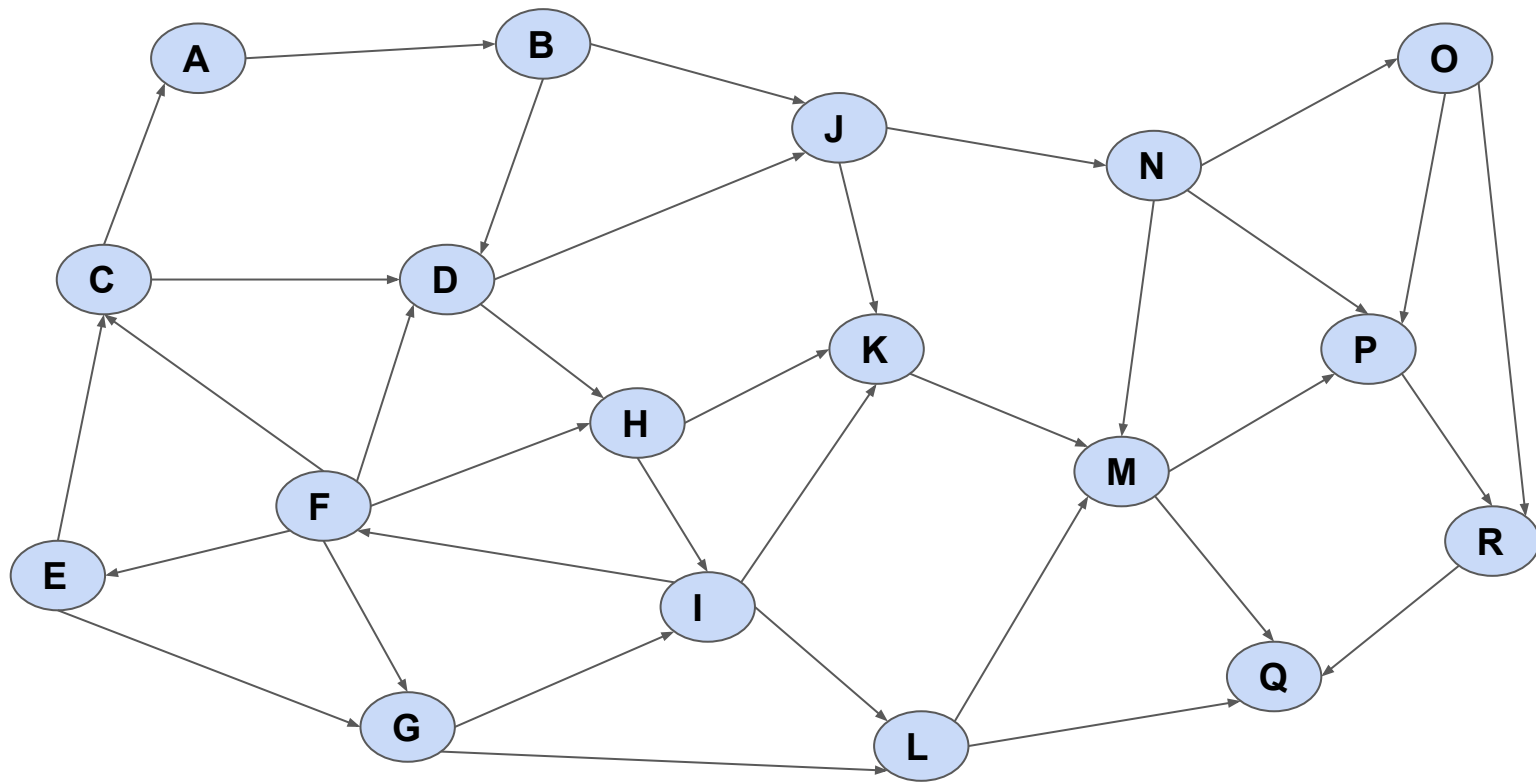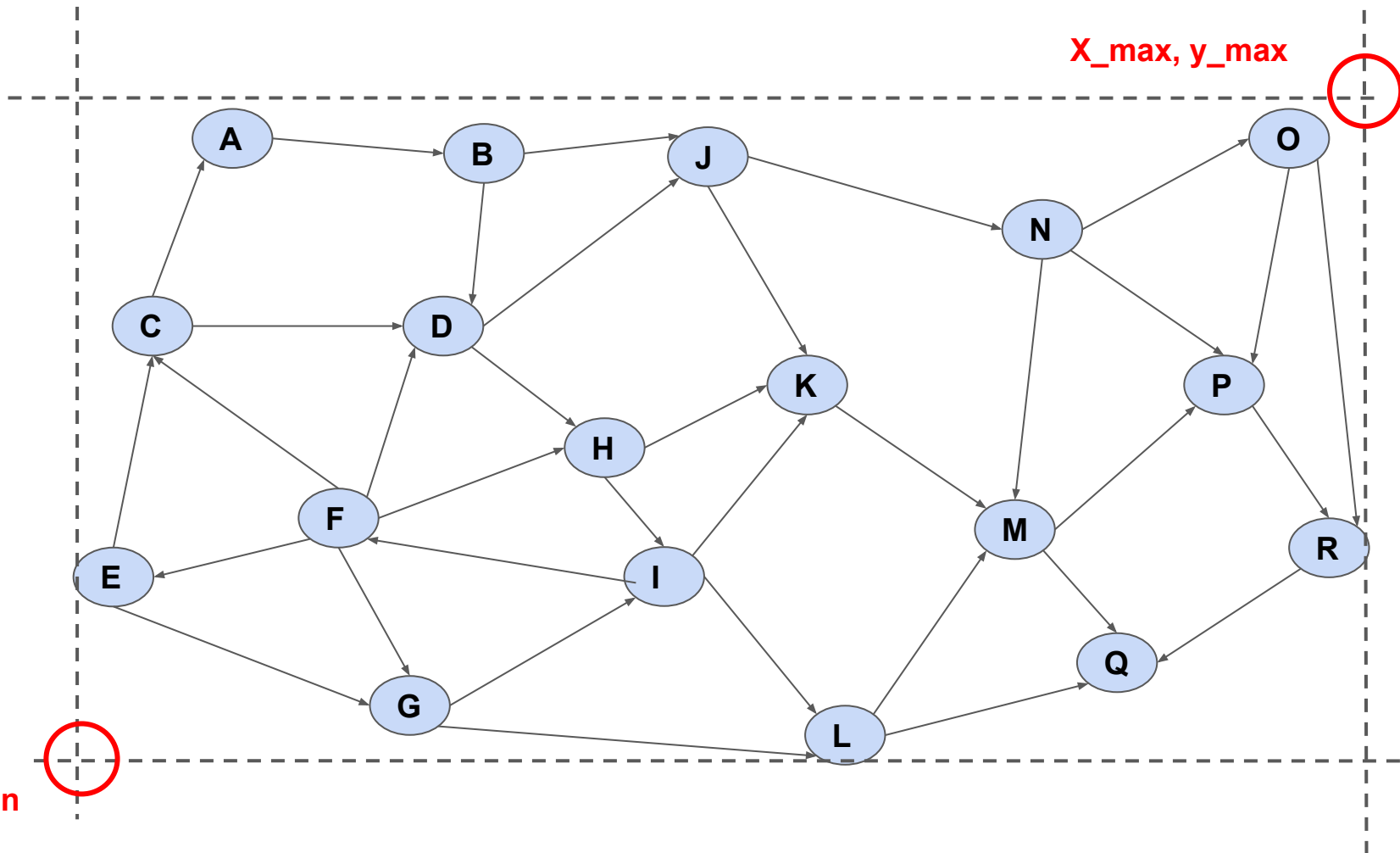Each node
has x,y
coordinates

Edges have
edge length

Sample Road Network

X_max, y_max

X_min, y_min
Computed
from dataset

Each cell is of fixed size KxK

Adjust boundaries as needed

Store the portion of graph in each cell in a separate file

X_max, y_max

X_min, y_min
Computed from dataset