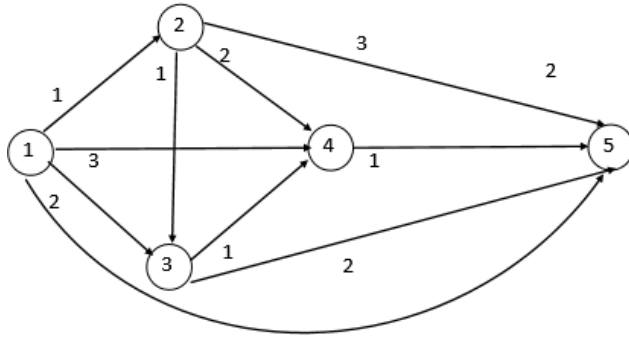# Step-1

Consider the following 5-node network with the capacity between node i and node j is $|i-j|$

Step-2

The maximum flow along the various paths of the node 1 and 4 is shown below.

Path	Maximum flow
Node 1-4	3
Node 1-2-4	1
Node 1-3-4	1
Total	5

Thus, it is observed the maximum flow is $\boxed{5}$