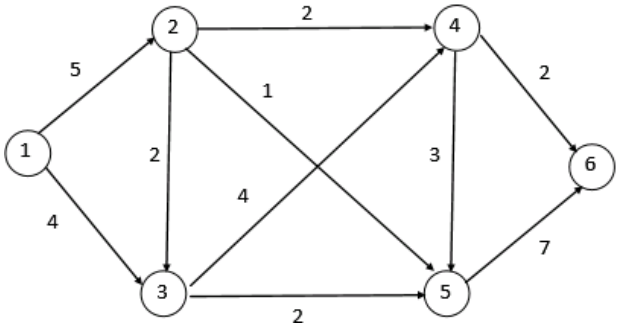
Step-1

Consider the following 6-node network with the corresponding edge capacities.



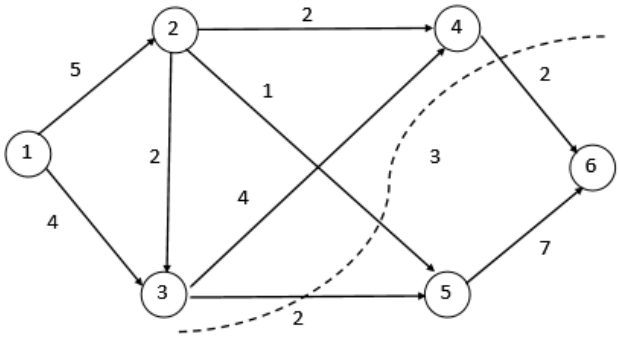
Let us consider the maximum flow along the various paths of the network.

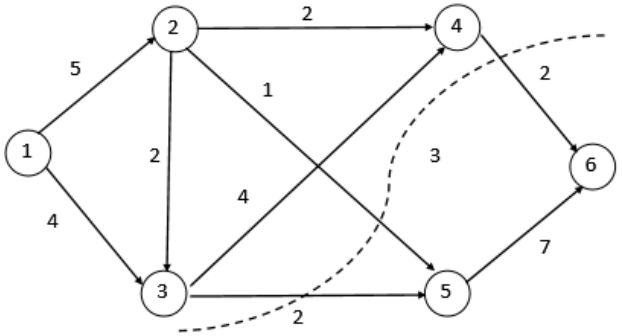
Path	Maximum flow
Node 1-2-5-6	1
Node 1-2-3-5-6	2
Node 1-2-4-6	2
Node 1-3-4-5-6	3
Total	**8**

Thus, it is observed the maximum flow is **8**

Step-2

Let us take the minimal cut separating nodes 5 and 6 from the other nodes as shown below.





It is observed that the minimum cut capacity is 8