# Question 3

Construct a flow network. We assume computer 1 is source and computer n is sink.

Then, each computer is a vertex connected each other. And there are M one directional links among 1 to N.

The capacities of the edges the costing of removing the links.

We are trying to find the minimum total cost to disconnect the computers. Therefore, it is a max-flow/min cut problem.

We have already constructed the flow network.

After Edmonds-Karp algorithm executing, we can get the last residual network flow. This will define the corresponding minimal cut which is the minimal total cost to disconnect the computer.