

Given: A network with N computers

Aim: Prevent the virus in a way that have minimums cost on removing edges.

The source S is the computer 1 with a edge to the sink is the computer N.
Problem: We now run the Edmons-Karp algorithm to find the maximal flow through such a network so that we can get a residual network and find out minimal cut, the edge that are getting cut is the edge that we will cut because we cost less. So that the minimal cost is the sum of the weight on path from Start S to sink.