PART 2 - Max-flow,
http://www.cs.rochester.edu/~stefanko/Teaching/08CS484

1 Theoretical part


2 Applied part (due Feb 5, 2008)


Compare the running times for the following instances parameterized by integers $A, N$, and a real number $p \in [0, 1]$. The (random) graph will have $N$ vertices, for each ordered pair of vertices $u, v$ the edge $(u, v)$ will be added with probability $p$ (independent of the other edges). Each edge has uniformly random capacity from the set $\{1, 2, \ldots, A\}$.

Run the algorithms for the following 80 settings of the parameters: $N \in \{100, 1000\}$, $p \in \{1/10, 2/10, \ldots, 10/10\}$, and $A \in \{1, 2, 10, 100\}$. 