Individual report

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I implemented the Mesh graph and random capacity function. Designing the getMaxflow function and getUpscallingMaxflow function to get the max flow in different input graph. Design and transform Simplegraph provided by professor to the one that we could use in FF algorithm. The experiments part is also my job. I use System.*currentTimeMillis*() to calculate the time used by FF algorithm and ScalingFF algorithm. I create GraphGenerator class to draw the performance graph and Performance class to do experiments on different input graph.

When the graph with lots of edges, the advantage of ScalingFF algorithm may be overwhelmed by m^2. Through mesh graph, we could clearly see that ScalingFF algorithm running time increased lots along with the increase of the number of edges. Therefore, when the number of edges is not huge, we could use the FF instead of ScalingFF.