CS 591 Report

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Program a, at first I should load two txt files and change the format of the data. I use the matrix to describe the graph, the matrix is n-by-n. So the value n is number of the nodes, and in the matrix if the element a[i,j] is 1, it means that there is an edge between the node i and the node j. like that:



Before compute the g-function, we should compute the number of edges which are connected with the same node.

Then define the confuse function which is used to judge the mark of each point.



In my program the min label is one not zero, so the real result should minus one.

In the program b , I use some part of the program a, for each number I use a function compute to compute ⊕. It can compute all kinds of situations, and can control the operation move or Take away. Like that:

Use the Nim function and mex function to compute