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Java -version : java11

Jgrapht -version: 1.5.0

The inputfile is src/testFiles/dotGraph.dot

The outputfiles are other files in src/testFiles

You can run the code using the "run" option in intellij idea. When using 'run', there are two options, the first is for running main function, the second is for running four test function.

This project implements the following functions:

The dot file is parsed and transformed into a graph, and supports adding or removing nodes and edges in the graph. At the same time, the graph can be output to dot format, jpg format or png format.

The program uses unit test to test in stages. Because it is difficult to compare whether the two graphs are equal, I turn to compare whether the number of nodes and edges of the two graphs are the same, so as to indirectly verify the correctness of the program function.

Inputfile is a dot format graph as follows:

Nodes: [0,1,2,3,4,5,6,7,8,9,10,11,12]

Edges: [0->2,0->5,0->8,0->11,1->3,1->6,1->9,1->12,  
2->4,2->7,2->10,3->5,3->8,3->11,4->6,4->9,  
4->12,5->7,5->10,6->8,6->11,7->9,7->12,  
8->10,9->11,10->12].