

```
/Library/Java/JavaVirtualMachines/jdk-13.0.1.jdk/Contents/Home/bin/java "-javaagent:/Applications/IntelliJ
IDEA.app/Contents/lib/idea_rt.jar=54794:/Applications/IntelliJ IDEA.app/Contents/bin" -Dfile.encoding=UTF-8
-classpath "/Users/lanshunfang/Documents/NEU-Courses-Courses/Program Structure - Algorithms/alg-
hw/out/production/alg-hw" org.neu.alg.hw.hw8.GraphTest
```

Java version used for this program is 13.0.1

GraphTest.java starts

You can see dot file at /Users/lanshunfang/Downloads/graph-output/50.dot

File 50.txt

Num Vertices = 6

Num Edges = 8

Work done = 6

BFS order = 0 5 1 2 3 4

BFS path = 0 0 0 0 5 2

0

0->5

0->1

0->2

0->5->3

0->2->4

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You can see dot file at /Users/lanshunfang/Downloads/graph-output/1.dot

File 1.txt

Num Vertices = 5

Num Edges = 4

Work done = 5

BFS order = 1 2 3 4 5

BFS path = 1 1 1 3 3

1

1->2

1->3

1->3->4

1->3->5

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You can see dot file at /Users/lanshunfang/Downloads/graph-output/2.dot

File 2.txt

Num Vertices = 5

Num Edges = 2

Work done = 5

BFS order = 1 2 3 4 5

BFS path = 1 1 1 2 4

1

1->2

1->3

1->2->4

1->2->4->5

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You can see dot file at /Users/lanshunfang/Downloads/graph-output/3.dot

File 3.txt

Num Vertices = 5

Num Edges = 3

Work done = 5

BFS order = 0 1 2 3 4

BFS path = 0 0 0 1 3

0

0->1

0->2

0->1->3

0->1->3->4

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You can see dot file at /Users/lanshunfang/Downloads/graph-output/4.dot

File 4.txt

Num Vertices = 3

Num Edges = 1

Work done = 3

BFS order = A B C

BFS path = A A A

A

A->B

A->C

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You can see dot file at /Users/lanshunfang/Downloads/graph-output/5.dot

File 5.txt

Num Vertices = 8

Num Edges = 10

Work done = 8

BFS order = 0 1 3 2 4 7 5 6

BFS path = 0 0 0 1 3 3 4 4

0

0->1

0->3

0->1->2

0->3->4

0->3->7

0->3->4->5

0->3->4->6

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You can see dot file at /Users/lanshunfang/Downloads/graph-output/6.dot

File 6.txt

Num Vertices = 5

Num Edges = 4

Work done = 5

BFS order = 1 2 5 9 10

BFS path = 1 1 1 5 5

1

1->2

1->5

1->5->9

1->5->10

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You can see dot file at /Users/lanshunfang/Downloads/graph-output/7.dot

File 7.txt

Num Vertices = 7

Num Edges = 6

Work done = 7

BFS order = 0 2 3 1 5 4 6

BFS path = 0 0 0 0 2 2 1

0

0->2

0->3

0->1

0->2->5

0->2->4

0->1->6

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GraphTest.java Ends

goggle: grapviz online

Process finished with exit code 0