**Readme – SP6**

**Breadth First Search Applications**

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Follow the below mentioned steps to compile and run the file:

Method 1: On Command Prompt/ Terminal

• Compile the files Graph.java, BFSOO.java and BFSApplications.java using command :

javac ./ hxr190001/<file\_name>.java

• Execute the file using command: java ./ hxr190001/ BFSApplications

• The input can be used as either a command line argument as a file from which input is read else it can be used as an input from string

Method 2: IDE such as Eclipse or Netbeans

• Create a package named ‘hxr190001’

• Create three classes named Graph.java BFSOO.java and BFSApplicaions.java

• Copy the code into the respective files.

• Run the BFSApplicaions.java file

• The input can be used as either a command line argument as a file from which input is read else it can be used as an input from string

Test Case 1:

INPUT - Takes in a string: (as provided in the starter code)

String string = "7 8 1 2 2 1 3 3 2 4 5 3 4 4 4 5 1 5 1 -7 6 7 -1 7 6 -1 1";

OUTPUT –

No odd length cycle in graph.

Test Case 2:

INPUT – Takes in a string:

String string = "8 8 1 2 2 1 3 3 3 4 4 4 5 1 4 1 -7 6 7 1 6 8 1 7 8 1 1";

OUTPUT –

The odd length cycle is:

[1, 4, 3, 1]