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1. THE MEDIUM OF IMPLEMENTATION IS JAVA.
2. THE FILES HAVE BEEN COMPILED AND EXECUTED ON LINUX SYSTEMS.
3.FOR WINDOWS THE BELOW COMMANDS MAY NOT WORK DIRECTLY. BUT, THE JAVA SOURCE FILES
MENTIONED CAN BE COMPILED AND RUN.
All the source files are present in "src" directory
All compiled class files are present in "classes" directory
1. For running Min - Heap test (Project part 2)
EITHER
goto src directory
$ cd src
$ javac MinHeap.java MinHeapTest.java
$ java MinHeapTest
0R
goto classes directory
$ java MinHeapTest
                                // directly run the pre-compiled class
-> This code
   - generates 100 nodes (0 to 99) with random values between 1 and 1000.
   - inserts these nodes to a min heap
   - prints the contents of heap
   - deletes nodes one by one and prints them (creating sorted output)
2. For running Max Capacity Path analysis (Project part 3)
Do one of the below three options :
EITHER
a) run the shell script "PandeyNikhilesh_224002412.sh"
$ chmod 777 PandeyNikhilesh_224002412.sh
$ ./PandeyNikhilesh_224002412.sh
-> this will ask to enter the degree. Enter 6 for sparse graph and 1000 for dense
graph.
The code will (Project part 4)
- generate 5 graphs of corresponding type (sparse / dense)
- randomly choose 5 source - destination nodes for each of the 5 graphs
- print the max capacity path, max capacity value and time taken for each of the
three methods: Dijkstra (without heap), Dijkstra (with heap) and Kruskal.
b) Directly run the class file
$ cd classes
$ java MaxCapPathAnalysis 6 (or 1000 for dense graph)
OR
c) Compile and run the java files ( this method may be used for windows or on
linux, if for some reason above - a and b - do not work)
goto src directory
$ cd src
$ javac *.java
$ java MaxCapPathAnalysis 6
                                       (or 1000 for dense graph)
-> output in 'b' or 'c' will be same as in 'a' : (Project part 4)
```