Screen.IO.txt

```
1 **********************
 2 * PROGRAMMED BY : Daniel Olaes & Wesley Chok
 3 * CLASS
                 : CS1D
4 * SECTION
                 : MW: 2:30 P.M.
 5 * ASSIGNMENT #9 : DFS & BFS
6 *********************
8 Part A - This part will demonstrate DFS starting
9 at Chicago (choosing the edge with the smallest
10 mileage) using an adjacency list. The discovery
11 edges and the back edges will be identified as
12 well.Part B - This part will demonstrate BFS
13 starting at Chicago (choosing the edge with the
14 smallest mileage) using an adjacency matrix. The
15 discovery edges and the cross edges will be
16 identified as well.
17
18 PART A - DFS (Adjacency List):
20 DFS Traversal:
21 Chicago
22 Kansas City
23 Dallas
24 Houston
25 Atlanta
26 Miami
27 New York
28 Boston
29 Los Angeles
30 San Francisco
31 Seattle
32 Denver
33
34 Total Distance Traveled: 7795 miles.
36 Discovery Edges:
37 Chicago->Kansas City
38 Kansas City->Dallas
39 Dallas->Houston
40 Houston->Atlanta
41 Atlanta->Miami
42 Atlanta->New York
43 New York->Boston
44 Dallas->Los Angeles
45 Los Angeles->San Francisco
46 San Francisco->Seattle
47 Seattle->Denver
48
49 Back Edges:
50 Houston->Dallas
51 Miami->Atlanta
52 Miami->Houston
53 Atlanta->Dallas
54 Atlanta->Houston
55 Atlanta->Kansas City
56 Boston->New York
57 Boston->Chicago
```

Screen.IO.txt

```
58 New York->Chicago
 59 New York->Atlanta
 60 New York->Kansas City
 61 Houston->Miami
 62 Dallas->Kansas City
 63 Dallas->Atlanta
 64 San Francisco->Los Angeles
 65 Seattle->San Francisco
 66 Denver->Kansas City
 67 Denver->Chicago
 68 Denver->Los Angeles
 69 Denver->San Francisco
 70 Denver->Seattle
 71 Seattle->Chicago
 72 San Francisco->Denver
 73 Los Angeles->Denver
 74 Los Angeles->Dallas
 75 Los Angeles->Kansas City
 76 Kansas City->Chicago
 77 Kansas City->Denver
 78 Kansas City->Atlanta
 79 Kansas City->New York
 80 Kansas City->Los Angeles
 81 Chicago->New York
 82 Chicago->Boston
 83 Chicago->Denver
 84 Chicago->Seattle
 86 PART B - BFS (Adjacency Matrix):
 88 BFS Traversal:
 89 Chicago
 90 Kansas City
 91 New York
 92 Boston
 93 Denver
 94 Seattle
 95 Dallas
 96 Atlanta
 97 Los Angeles
 98 San Francisco
 99 Houston
100 Miami
101
102 Total Distance Traveled: 10593 miles.
104 Discovery Edges:
105 Chicago->Kansas City
106 Chicago->New York
107 Chicago->Boston
108 Chicago->Denver
109 Chicago->Seattle
110 Kansas City->Dallas
111 Kansas City->Atlanta
112 Kansas City->Los Angeles
113 Denver->San Francisco
114 Dallas->Houston
```

Screen.IO.txt

- 115 Atlanta->Miami
- 116
- 117 Back Edges:
- 118 Kansas City->Chicago
- 119 Kansas City->Denver
- 120 Kansas City->New York
- 121 New York->Boston
- 122 New York->Chicago
- 123 New York->Atlanta
- 124 New York->Kansas City
- 125 Boston->New York
- 126 Boston->Chicago
- 127 Denver->Kansas City
- 128 Denver->Chicago
- 129 Denver->Los Angeles
- 130 Denver->Seattle
- 131 Seattle->San Francisco
- 132 Seattle->Denver
- 133 Seattle->Chicago
- 134 Dallas->Kansas City
- 135 Dallas->Atlanta
- 136 Dallas->Los Angeles
- 137 Atlanta->Dallas
- 138 Atlanta->Houston
- 139 Atlanta->Kansas City
- 140 Atlanta->New York
- 141 Los Angeles->San Francisco
- 142 Los Angeles->Denver
- 143 Los Angeles->Dallas
- 144 Los Angeles->Kansas City
- 145 San Francisco->Los Angeles
- 146 San Francisco->Seattle
- 147 San Francisco->Denver
- 148 Houston->Dallas
- 149 Houston->Atlanta
- 150 Houston->Miami
- 151 Miami->Atlanta
- 152 Miami->Houston