

Weighted Graph and Prim's Algorithms
Report #13

By
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CS 303 Algorithms and Data Structures

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1. Problem Specification

The goal of this assignment is to implement a weighted graph and then implement a Prim's Algorithms implementing it.

2. Program Design

The first part of this assignment was basically to create the Graph class and print it adjacency list and for this I also created an Edge class and a Vertex class.

The following steps were required to develop this program:

- a) Create the Graph class

The following methods were defined within the Graph, Edge and Vertex:

- a) Graph()
 - a. Empty Constructor
- b) Graph(BufferedReader reader)
 - a. Build a graph with an input file
- c) getWeight(int v, int w)
 - a. Returns the weight associated to vertex(v,w)
- d) toString()
 - a. prints the adjacency list

Then I had to implement the MSTPrim class

- a) MSTPrim(Graph G)
 - a. Starts the Prim algorithm and creates the MST
- b) prim(Graph G, int s)
 - a. Runs Prim's algorithm starting from vertex s
- c) scan(Graph G, int v)
 - a. Continue running Prim's algorithms scanning for vertex v
- d) edges()
 - a. Returns the edges from MST
- e) weight()
 - a. returns the sum of the weight
- f) MSTPrim2(Graph G, int w, int r)
 - a. Starts the Prim's algorithm according to the lab manual

The Scanner class provided by Java was used to read in the necessary values within the provided driver program. The println method of the System.out object was used to display the inputs and results for the provided driver program.

3. Testing Plan

For the first part of the assignment I just printed the adjacency list as required for MediumGraph.txt, LargeGraph.txt and XtraLargeGraph.txt.

For the second part of the assignment I printed the weight for mediumGraph.txt, LargeGraph.txt and XtraLargeGraph.txt.

4. Test Cases

For the first part we read the MediumGraph.txt file as an weighted graph and prints the adjacency list. As the output is very very very big I will print only some random selected elements.

For mediumGraph.txt:

0: (0, 15, 0.05719), (0, 24, 0.10191), (0, 44, 0.06471), (0, 49, 0.04849), (0, 58, 0.09955), (0, 59, 0.10657), (0, 68, 0.11816), (0, 80, 0.06821), (0, 97, 0.07705), (0, 114, 0.0961), (0, 149, 0.09659), (0, 160, 0.11714), (0, 163, 0.09368), (0, 176, 0.08927), (0, 191, 0.10711), (0, 202, 0.04678), (0, 204, 0.05476), (0, 209, 0.09511), (0, 211, 0.08438), (0, 222, 0.07573), (0, 225, 0.02383),

34: (34, 53, 0.08565), (34, 56, 0.04399), (34, 73, 0.01812), (34, 120, 0.09075), (34, 145, 0.07784),

169: (169, 177, 0.08571), (169, 186, 0.05624), (169, 189, 0.08899), (169, 190, 0.0932), (169, 220, 0.10104),

207: (207, 210, 0.03158), (207, 212, 0.05667), (207, 214, 0.10119), (207, 219, 0.06878), (207, 221, 0.02902), (207, 244, 0.09218),

For LargeGraph.txt:

312: (312, 314, 0.02981), (312, 321, 0.03981), (312, 324, 0.02263), (312, 455, 0.05249), (312, 457, 0.06705), (312, 511, 0.04183), (312, 672, 0.05958), (312, 776, 0.06168), (312, 808, 0.05154), (312, 810, 0.07393), (312, 824, 0.02737), (312, 850, 0.07446), (312, 852, 0.06552), (312, 901, 0.04219), (312, 919, 0.0398),

523: (523, 556, 0.03519), (523, 570, 0.06568), (523, 581, 0.06818), (523, 668, 0.06395), (523, 821, 0.04145), (523, 874, 0.07081), (523, 886, 0.03713), (523, 894, 0.03622), (523, 936, 0.04322), (523, 965, 0.03079),

897: (897, 913, 0.03854), (897, 933, 0.0384), (897, 944, 0.03211),
(897, 947, 0.03209), (897, 974, 0.05477), (897, 998, 0.05756),

For XtraLargeGraph.txt:

7876: (7876, 8056, 0.01622), (7876, 8214, 0.00448), (7876, 8585,
0.01819), (7876, 8997, 0.00452), (7876, 9621, 0.0116), (7876, 9643,
0.01139), (7876, 9949, 0.00359),

7968: (7968, 8986, 0.01748), (7968, 9207, 0.01874), (7968, 9247,
0.01729), (7968, 9250, 0.01952), (7968, 9309, 0.01968), (7968, 9694,
0.00979),

9009: (9009, 9066, 0.00839), (9009, 9443, 0.01816), (9009, 9532,
0.01513),

For the second part we had to implement Prim's algorithm. These are
some outputs:

For mediumGraph.txt:

4 - 5 -> Weight: 0.11184
8 - 11 -> Weight: 0.04709
2 - 14 -> Weight: 0.08765
0 - 15 -> Weight: 0.05719
6 - 16 -> Weight: 0.04529
2 - 18 -> Weight: 0.07425
13 - 19 -> Weight: 0.08927
9 - 23 -> Weight: 0.03526
15 - 24 -> Weight: 0.04507
4 - 26 -> Weight: 0.08347
21 - 27 -> Weight: 0.01873
12 - 28 -> Weight: 0.06032
8 - 30 -> Weight: 0.03985
5 - 32 -> Weight: 0.11054
23 - 33 -> Weight: 0.06032
22 - 34 -> Weight: 0.03658
18 - 35 -> Weight: 0.11609
35 - 36 -> Weight: 0.08804
3 - 37 -> Weight: 0.08512
24 - 39 -> Weight: 0.07951
20 - 40 -> Weight: 0.07068
36 - 41 -> Weight: 0.05329

2 - 42 -> Weight: 0.11456
8 - 43 -> Weight: 0.09334
0 - 44 -> Weight: 0.06471
3 - 45 -> Weight: 0.11902
29 - 47 -> Weight: 0.02921
45 - 48 -> Weight: 0.11127
0 - 49 -> Weight: 0.04849
48 - 50 -> Weight: 0.09958
2 - 51 -> Weight: 0.05083
32 - 52 -> Weight: 0.07988
22 - 53 -> Weight: 0.07033
16 - 54 -> Weight: 0.07406
4 - 55 -> Weight: 0.06425
22 - 56 -> Weight: 0.01508
7 - 57 -> Weight: 0.06795
0 - 58 -> Weight: 0.09955
49 - 59 -> Weight: 0.08296
25 - 60 -> Weight: 0.03405
27 - 62 -> Weight: 0.07419
60 - 63 -> Weight: 0.06637
47 - 64 -> Weight: 0.10444
57 - 65 -> Weight: 0.0675
39 - 66 -> Weight: 0.0559
3 - 67 -> Weight: 0.09725
58 - 68 -> Weight: 0.04795
51 - 70 -> Weight: 0.0799
65 - 71 -> Weight: 0.06843
1 - 72 -> Weight: 0.06506
34 - 73 -> Weight: 0.01812
38 - 74 -> Weight: 0.06907
20 - 75 -> Weight: 0.02897
3 - 76 -> Weight: 0.08069
26 - 77 -> Weight: 0.03854
4 - 78 -> Weight: 0.02559
51 - 79 -> Weight: 0.06984
0 - 80 -> Weight: 0.06821
41 - 81 -> Weight: 0.11854
11 - 82 -> Weight: 0.03687
67 - 83 -> Weight: 0.07338
70 - 84 -> Weight: 0.08129
82 - 85 -> Weight: 0.04344
2 - 86 -> Weight: 0.0598
61 - 87 -> Weight: 0.05163

35 - 88 -> Weight: 0.07142
75 - 89 -> Weight: 0.03394
62 - 90 -> Weight: 0.08635
29 - 91 -> Weight: 0.06429
44 - 93 -> Weight: 0.06793
35 - 94 -> Weight: 0.06254
76 - 95 -> Weight: 0.0737
60 - 96 -> Weight: 0.0569
49 - 97 -> Weight: 0.03121
88 - 98 -> Weight: 0.08567
54 - 99 -> Weight: 0.08037
84 - 100 -> Weight: 0.09532
42 - 101 -> Weight: 0.09688
77 - 102 -> Weight: 0.02737
84 - 103 -> Weight: 0.05747
83 - 104 -> Weight: 0.08511
10 - 105 -> Weight: 0.11028
84 - 106 -> Weight: 0.11963
1 - 107 -> Weight: 0.07484
2 - 108 -> Weight: 0.09627
91 - 109 -> Weight: 0.06129
108 - 110 -> Weight: 0.06803
25 - 111 -> Weight: 0.05309
67 - 112 -> Weight: 0.11331
28 - 113 -> Weight: 0.05483
15 - 114 -> Weight: 0.09104
76 - 115 -> Weight: 0.03658
20 - 116 -> Weight: 0.02095
98 - 117 -> Weight: 0.11425
57 - 118 -> Weight: 0.08024
81 - 119 -> Weight: 0.08225
119 - 120 -> Weight: 0.10342
41 - 121 -> Weight: 0.07816
110 - 122 -> Weight: 0.05351
106 - 123 -> Weight: 0.11362
118 - 124 -> Weight: 0.063
101 - 125 -> Weight: 0.10521
109 - 126 -> Weight: 0.09332
89 - 127 -> Weight: 0.10682
112 - 128 -> Weight: 0.0996
14 - 129 -> Weight: 0.10737
1 - 130 -> Weight: 0.10203
84 - 131 -> Weight: 0.10014

92 - 132 -> Weight: 0.07972
14 - 133 -> Weight: 0.06649
81 - 134 -> Weight: 0.04508
86 - 135 -> Weight: 0.10345
112 - 136 -> Weight: 0.05632
119 - 137 -> Weight: 0.09676
77 - 138 -> Weight: 0.07171
122 - 139 -> Weight: 0.01217
117 - 140 -> Weight: 0.10873
86 - 141 -> Weight: 0.0564
124 - 142 -> Weight: 0.06118
131 - 143 -> Weight: 0.05854
97 - 144 -> Weight: 0.07138
119 - 145 -> Weight: 0.05361
134 - 146 -> Weight: 0.06821
129 - 147 -> Weight: 0.08531
125 - 148 -> Weight: 0.04208
15 - 149 -> Weight: 0.04256
72 - 150 -> Weight: 0.0821
52 - 151 -> Weight: 0.03422
143 - 152 -> Weight: 0.07831
3 - 153 -> Weight: 0.04799
142 - 154 -> Weight: 0.11701
124 - 155 -> Weight: 0.01487
110 - 156 -> Weight: 0.03963
125 - 157 -> Weight: 0.02917
121 - 158 -> Weight: 0.08749
112 - 159 -> Weight: 0.04347
44 - 160 -> Weight: 0.06268
120 - 161 -> Weight: 0.09789
147 - 162 -> Weight: 0.09416
24 - 163 -> Weight: 0.05034
150 - 164 -> Weight: 0.09115
68 - 165 -> Weight: 0.10769
133 - 166 -> Weight: 0.06778
117 - 167 -> Weight: 0.09427
93 - 168 -> Weight: 0.03641
150 - 169 -> Weight: 0.06638
121 - 170 -> Weight: 0.03464
165 - 171 -> Weight: 0.11685
165 - 172 -> Weight: 0.09828
107 - 173 -> Weight: 0.08976
84 - 174 -> Weight: 0.0277

143 - 175 -> Weight: 0.10421
160 - 176 -> Weight: 0.06571
72 - 177 -> Weight: 0.06434
98 - 178 -> Weight: 0.05183
79 - 179 -> Weight: 0.07431
165 - 180 -> Weight: 0.01756
135 - 181 -> Weight: 0.07362
41 - 182 -> Weight: 0.03878
137 - 183 -> Weight: 0.11008
181 - 184 -> Weight: 0.08764
144 - 185 -> Weight: 0.03018
177 - 186 -> Weight: 0.03537
168 - 187 -> Weight: 0.0408
184 - 188 -> Weight: 0.07566
72 - 189 -> Weight: 0.03706
150 - 190 -> Weight: 0.06182
160 - 191 -> Weight: 0.0541
103 - 192 -> Weight: 0.04287
84 - 193 -> Weight: 0.09844
164 - 194 -> Weight: 0.07229
142 - 195 -> Weight: 0.08901
108 - 196 -> Weight: 0.03132
172 - 197 -> Weight: 0.09121
121 - 198 -> Weight: 0.07031
60 - 199 -> Weight: 0.04868
72 - 200 -> Weight: 0.08158
185 - 201 -> Weight: 0.06956
0 - 202 -> Weight: 0.04678
72 - 203 -> Weight: 0.0347
202 - 204 -> Weight: 0.04207
196 - 205 -> Weight: 0.05718
66 - 206 -> Weight: 0.05154
156 - 207 -> Weight: 0.07567
187 - 208 -> Weight: 0.06557
24 - 209 -> Weight: 0.02802
156 - 210 -> Weight: 0.04409
15 - 211 -> Weight: 0.04
179 - 212 -> Weight: 0.09146
180 - 213 -> Weight: 0.03355
212 - 214 -> Weight: 0.09024
183 - 215 -> Weight: 0.03017
201 - 216 -> Weight: 0.11363
201 - 217 -> Weight: 0.11118

146 - 218 -> Weight: 0.06252
212 - 219 -> Weight: 0.08099
150 - 220 -> Weight: 0.04158
219 - 221 -> Weight: 0.06535
202 - 222 -> Weight: 0.0544
200 - 223 -> Weight: 0.09984
167 - 224 -> Weight: 0.07521
0 - 225 -> Weight: 0.02383
187 - 226 -> Weight: 0.0366
134 - 227 -> Weight: 0.03986
153 - 228 -> Weight: 0.05583
158 - 229 -> Weight: 0.09925
197 - 230 -> Weight: 0.09937
160 - 231 -> Weight: 0.06647
201 - 232 -> Weight: 0.03557
188 - 233 -> Weight: 0.08575
130 - 234 -> Weight: 0.11697
213 - 235 -> Weight: 0.09305
166 - 236 -> Weight: 0.09479
96 - 237 -> Weight: 0.06553
235 - 238 -> Weight: 0.07048
128 - 239 -> Weight: 0.01726
233 - 240 -> Weight: 0.07634
153 - 241 -> Weight: 0.04247
223 - 242 -> Weight: 0.10184
103 - 243 -> Weight: 0.05731
179 - 244 -> Weight: 0.0705
238 - 245 -> Weight: 0.06142
143 - 246 -> Weight: 0.0759
190 - 247 -> Weight: 0.0668
144 - 248 -> Weight: 0.01527
203 - 249 -> Weight: 0.04148
Final Weight: 15.43905

For LargeGraph.txt:

2 - 3 -> Weight: 0.0749
0 - 8 -> Weight: 0.04315
7 - 9 -> Weight: 0.07146
10 - 12 -> Weight: 0.01754
2 - 16 -> Weight: 0.06945
5 - 22 -> Weight: 0.0621
18 - 29 -> Weight: 0.07323

29 - 31 -> Weight: 0.04676
25 - 32 -> Weight: 0.00981
34 - 36 -> Weight: 0.05088
30 - 37 -> Weight: 0.04492
14 - 38 -> Weight: 0.06901
33 - 41 -> Weight: 0.05512
38 - 44 -> Weight: 0.03717
7 - 45 -> Weight: 0.0505
32 - 47 -> Weight: 0.02629
15 - 48 -> Weight: 0.01885
16 - 49 -> Weight: 0.06001
37 - 50 -> Weight: 0.05461
25 - 51 -> Weight: 0.06174
1 - 55 -> Weight: 0.07
53 - 56 -> Weight: 0.02878
15 - 57 -> Weight: 0.05759
5 - 59 -> Weight: 0.00784
17 - 62 -> Weight: 0.02185
33 - 64 -> Weight: 0.04608
7 - 68 -> Weight: 0.07427
23 - 69 -> Weight: 0.03592
60 - 71 -> Weight: 0.03482
12 - 73 -> Weight: 0.06988
4 - 76 -> Weight: 0.0544
6 - 77 -> Weight: 0.02295
27 - 78 -> Weight: 0.07052
26 - 79 -> Weight: 0.04118
11 - 80 -> Weight: 0.03692
35 - 82 -> Weight: 0.05641
68 - 83 -> Weight: 0.05431
23 - 84 -> Weight: 0.01595
73 - 85 -> Weight: 0.06614
43 - 86 -> Weight: 0.0141
39 - 88 -> Weight: 0.06559
74 - 90 -> Weight: 0.01226
14 - 91 -> Weight: 0.06743
60 - 92 -> Weight: 0.0664
81 - 93 -> Weight: 0.07064
12 - 94 -> Weight: 0.05651
20 - 95 -> Weight: 0.0418
70 - 97 -> Weight: 0.04248
91 - 98 -> Weight: 0.07184
87 - 99 -> Weight: 0.0211

27 - 100 -> Weight: 0.0146
71 - 101 -> Weight: 0.03328
66 - 103 -> Weight: 0.0486
23 - 105 -> Weight: 0.0188
101 - 106 -> Weight: 0.01986
37 - 107 -> Weight: 0.02497
39 - 108 -> Weight: 0.03504
21 - 109 -> Weight: 0.04754
11 - 110 -> Weight: 0.07492
78 - 111 -> Weight: 0.04636
92 - 113 -> Weight: 0.04923
89 - 114 -> Weight: 0.06737
65 - 115 -> Weight: 0.05568
80 - 116 -> Weight: 0.03328
78 - 117 -> Weight: 0.03033
20 - 118 -> Weight: 0.01873
8 - 119 -> Weight: 0.01701
55 - 120 -> Weight: 0.04915
84 - 121 -> Weight: 0.02889
57 - 122 -> Weight: 0.05943
94 - 123 -> Weight: 0.03587
102 - 124 -> Weight: 0.05981
92 - 125 -> Weight: 0.00803
87 - 126 -> Weight: 0.02621
115 - 127 -> Weight: 0.04991
126 - 128 -> Weight: 0.02701
58 - 129 -> Weight: 0.02704
59 - 130 -> Weight: 0.04948
79 - 131 -> Weight: 0.06448
122 - 132 -> Weight: 0.0306
79 - 133 -> Weight: 0.02782
110 - 134 -> Weight: 0.0587
103 - 135 -> Weight: 0.06688
104 - 136 -> Weight: 0.01776
41 - 137 -> Weight: 0.00173
39 - 138 -> Weight: 0.04112
21 - 139 -> Weight: 0.0426
124 - 140 -> Weight: 0.05965
43 - 141 -> Weight: 0.07194
66 - 142 -> Weight: 0.02254
75 - 143 -> Weight: 0.03718
31 - 144 -> Weight: 0.03023
3 - 145 -> Weight: 0.04887

63 - 146 -> Weight: 0.01419
137 - 147 -> Weight: 0.04061
51 - 148 -> Weight: 0.0079
1 - 149 -> Weight: 0.01007
4 - 150 -> Weight: 0.02492
94 - 151 -> Weight: 0.05435
97 - 152 -> Weight: 0.00666
69 - 153 -> Weight: 0.03995
143 - 154 -> Weight: 0.01943
151 - 155 -> Weight: 0.02589
141 - 156 -> Weight: 0.02773
46 - 157 -> Weight: 0.04228
131 - 158 -> Weight: 0.04965
110 - 159 -> Weight: 0.0183
120 - 160 -> Weight: 0.00697
73 - 162 -> Weight: 0.01657
112 - 163 -> Weight: 0.05107
90 - 164 -> Weight: 0.00875
114 - 165 -> Weight: 0.06091
83 - 166 -> Weight: 0.02625
75 - 167 -> Weight: 0.05312
22 - 168 -> Weight: 0.04198
52 - 169 -> Weight: 0.04733
117 - 170 -> Weight: 0.0393
65 - 171 -> Weight: 0.0375
171 - 172 -> Weight: 0.03416
153 - 174 -> Weight: 0.03048
99 - 175 -> Weight: 0.02563
70 - 176 -> Weight: 0.03621
161 - 177 -> Weight: 0.05784
51 - 178 -> Weight: 0.02629
35 - 179 -> Weight: 0.03764
54 - 180 -> Weight: 0.01628
48 - 181 -> Weight: 0.04926
29 - 182 -> Weight: 0.01675
68 - 183 -> Weight: 0.02808
181 - 184 -> Weight: 0.02618
7 - 185 -> Weight: 0.0106
86 - 186 -> Weight: 0.04622
171 - 188 -> Weight: 0.02314
113 - 189 -> Weight: 0.02807
112 - 190 -> Weight: 0.04001
77 - 191 -> Weight: 0.06774

146 - 192 -> Weight: 0.02752
76 - 193 -> Weight: 0.04379
51 - 194 -> Weight: 0.06641
165 - 195 -> Weight: 0.02556
180 - 196 -> Weight: 0.03985
102 - 197 -> Weight: 0.01688
173 - 198 -> Weight: 0.02745
76 - 199 -> Weight: 0.00774
186 - 200 -> Weight: 0.03369
102 - 201 -> Weight: 0.04997
18 - 202 -> Weight: 0.00817
169 - 203 -> Weight: 0.02348
161 - 204 -> Weight: 0.03248
122 - 205 -> Weight: 0.04602
57 - 206 -> Weight: 0.05305
47 - 207 -> Weight: 0.01773
185 - 208 -> Weight: 0.03665
135 - 209 -> Weight: 0.01849
128 - 210 -> Weight: 0.0416
19 - 211 -> Weight: 0.04572
74 - 212 -> Weight: 0.03072
84 - 213 -> Weight: 0.01509
131 - 214 -> Weight: 0.0477
205 - 215 -> Weight: 0.02949
93 - 216 -> Weight: 0.02528
172 - 217 -> Weight: 0.05309
158 - 219 -> Weight: 0.05466
96 - 220 -> Weight: 0.06621
156 - 221 -> Weight: 0.01711
220 - 222 -> Weight: 0.07305
35 - 223 -> Weight: 0.0196
98 - 224 -> Weight: 0.02601
134 - 225 -> Weight: 0.05032
211 - 226 -> Weight: 0.03611
187 - 227 -> Weight: 0.02454
59 - 228 -> Weight: 0.04828
63 - 230 -> Weight: 0.03676
62 - 231 -> Weight: 0.03137
128 - 232 -> Weight: 0.01326
220 - 233 -> Weight: 0.01542
50 - 234 -> Weight: 0.04569
176 - 235 -> Weight: 0.04306
19 - 236 -> Weight: 0.01536

229 - 237 -> Weight: 0.07313
49 - 238 -> Weight: 0.03949
23 - 239 -> Weight: 0.00579
110 - 240 -> Weight: 0.0252
102 - 241 -> Weight: 0.0243
18 - 242 -> Weight: 0.03682
2 - 243 -> Weight: 0.01971
136 - 244 -> Weight: 0.01899
223 - 245 -> Weight: 0.03191
142 - 246 -> Weight: 0.00804
72 - 247 -> Weight: 0.03583
47 - 248 -> Weight: 0.0131
29 - 249 -> Weight: 0.02196
133 - 250 -> Weight: 0.0297
180 - 251 -> Weight: 0.04049
191 - 252 -> Weight: 0.03395
203 - 253 -> Weight: 0.02627
96 - 254 -> Weight: 0.04056
248 - 255 -> Weight: 0.03525
100 - 256 -> Weight: 0.02651
145 - 257 -> Weight: 0.01731
238 - 258 -> Weight: 0.0106
83 - 259 -> Weight: 0.02736
5 - 260 -> Weight: 0.02521
174 - 261 -> Weight: 0.01446
151 - 262 -> Weight: 0.06456
70 - 263 -> Weight: 0.02307
182 - 264 -> Weight: 0.0222
60 - 265 -> Weight: 0.01112
244 - 266 -> Weight: 0.01645
108 - 267 -> Weight: 0.03795
2 - 268 -> Weight: 0.03238
206 - 269 -> Weight: 0.05087
90 - 270 -> Weight: 0.03088
238 - 271 -> Weight: 0.0357
257 - 272 -> Weight: 0.04045
17 - 273 -> Weight: 0.01546
217 - 274 -> Weight: 0.02528
254 - 275 -> Weight: 0.04254
136 - 276 -> Weight: 0.01328
188 - 277 -> Weight: 0.01601
252 - 278 -> Weight: 0.05244
236 - 279 -> Weight: 0.0107

71 - 280 -> Weight: 0.01494
221 - 281 -> Weight: 0.03636
166 - 282 -> Weight: 0.04782
96 - 283 -> Weight: 0.00978
8 - 284 -> Weight: 0.00905
22 - 285 -> Weight: 0.02681
109 - 286 -> Weight: 0.06553
2 - 287 -> Weight: 0.03111
194 - 288 -> Weight: 0.05775
246 - 289 -> Weight: 0.03659
36 - 290 -> Weight: 0.0462
89 - 291 -> Weight: 0.01536
248 - 292 -> Weight: 0.01827
54 - 293 -> Weight: 0.01749
241 - 294 -> Weight: 0.05305
229 - 295 -> Weight: 0.05401
218 - 296 -> Weight: 0.02632
12 - 297 -> Weight: 0.0082
240 - 298 -> Weight: 0.01226
127 - 299 -> Weight: 0.01784
134 - 300 -> Weight: 0.03843
285 - 301 -> Weight: 0.0335
165 - 302 -> Weight: 0.01935
288 - 303 -> Weight: 0.00816
194 - 304 -> Weight: 0.00535
34 - 305 -> Weight: 0.01028
252 - 306 -> Weight: 0.01065
227 - 307 -> Weight: 0.01747
265 - 308 -> Weight: 0.02426
246 - 309 -> Weight: 0.02121
214 - 310 -> Weight: 0.01461
186 - 311 -> Weight: 0.00136
52 - 312 -> Weight: 0.02347
19 - 313 -> Weight: 0.01896
312 - 314 -> Weight: 0.02981
295 - 315 -> Weight: 0.05442
95 - 316 -> Weight: 0.02121
123 - 317 -> Weight: 0.04496
150 - 318 -> Weight: 0.03637
129 - 319 -> Weight: 0.05203
1 - 320 -> Weight: 0.07173
52 - 321 -> Weight: 0.02587
144 - 322 -> Weight: 0.04697

81 - 323 -> Weight: 0.01702
203 - 324 -> Weight: 0.01341
110 - 325 -> Weight: 0.04089
90 - 326 -> Weight: 0.02726
237 - 327 -> Weight: 0.06363
283 - 328 -> Weight: 0.04238
315 - 329 -> Weight: 0.04579
150 - 330 -> Weight: 0.01087
103 - 331 -> Weight: 0.04814
38 - 332 -> Weight: 0.03993
238 - 333 -> Weight: 7.7E-4
21 - 334 -> Weight: 0.007
42 - 335 -> Weight: 0.03854
60 - 336 -> Weight: 0.02511
284 - 337 -> Weight: 0.01667
83 - 338 -> Weight: 0.05554
85 - 339 -> Weight: 0.02462
5 - 340 -> Weight: 0.01895
127 - 341 -> Weight: 0.02208
236 - 342 -> Weight: 0.00742
276 - 343 -> Weight: 0.04896
131 - 344 -> Weight: 0.02508
67 - 345 -> Weight: 0.02019
167 - 346 -> Weight: 0.03548
336 - 347 -> Weight: 0.0414
16 - 348 -> Weight: 0.03054
107 - 349 -> Weight: 0.02103
68 - 350 -> Weight: 0.00706
332 - 351 -> Weight: 0.01816
64 - 352 -> Weight: 0.02903
128 - 353 -> Weight: 0.01876
89 - 354 -> Weight: 0.05246
13 - 355 -> Weight: 0.03285
193 - 356 -> Weight: 0.01798
48 - 357 -> Weight: 0.02157
337 - 358 -> Weight: 0.01911
76 - 359 -> Weight: 0.03315
163 - 360 -> Weight: 0.01597
360 - 361 -> Weight: 0.01273
53 - 362 -> Weight: 0.01536
252 - 363 -> Weight: 0.03472
15 - 364 -> Weight: 0.03075
360 - 365 -> Weight: 0.01278

71 - 366 -> Weight: 0.00555
331 - 367 -> Weight: 0.05472
112 - 368 -> Weight: 0.03516
366 - 369 -> Weight: 0.02562
122 - 370 -> Weight: 0.03107
251 - 371 -> Weight: 0.03567
233 - 372 -> Weight: 0.04033
57 - 373 -> Weight: 0.00746
173 - 374 -> Weight: 0.04561
159 - 375 -> Weight: 0.01996
180 - 376 -> Weight: 0.03814
192 - 377 -> Weight: 0.01021
266 - 378 -> Weight: 0.00467
198 - 379 -> Weight: 0.02785
316 - 380 -> Weight: 0.0102
59 - 381 -> Weight: 0.01556
49 - 382 -> Weight: 0.03261
86 - 383 -> Weight: 0.05014
370 - 384 -> Weight: 0.01329
278 - 385 -> Weight: 0.04987
53 - 386 -> Weight: 0.01189
217 - 387 -> Weight: 0.01088
178 - 388 -> Weight: 0.02609
7 - 389 -> Weight: 0.02442
26 - 390 -> Weight: 0.0206
266 - 391 -> Weight: 0.00856
43 - 392 -> Weight: 0.02796
206 - 393 -> Weight: 0.03458
302 - 394 -> Weight: 0.00674
246 - 395 -> Weight: 0.04111
295 - 396 -> Weight: 0.05271
65 - 397 -> Weight: 0.02014
45 - 398 -> Weight: 0.02825
230 - 399 -> Weight: 0.03229
345 - 400 -> Weight: 0.00976
213 - 401 -> Weight: 0.02679
291 - 402 -> Weight: 0.02727
138 - 403 -> Weight: 0.01408
182 - 404 -> Weight: 0.0177
257 - 405 -> Weight: 0.03084
79 - 406 -> Weight: 0.01827
361 - 407 -> Weight: 0.02136
371 - 408 -> Weight: 0.05905

261 - 409 -> Weight: 0.0175
223 - 410 -> Weight: 0.01621
226 - 411 -> Weight: 0.01548
399 - 412 -> Weight: 0.01713
282 - 413 -> Weight: 0.02466
197 - 414 -> Weight: 0.04132
88 - 415 -> Weight: 0.03997
282 - 416 -> Weight: 0.03056
311 - 417 -> Weight: 0.00321
278 - 418 -> Weight: 0.02417
112 - 419 -> Weight: 0.02488
0 - 420 -> Weight: 0.03426
198 - 421 -> Weight: 0.01674
392 - 422 -> Weight: 0.04948
402 - 423 -> Weight: 0.01009
19 - 424 -> Weight: 0.02284
26 - 425 -> Weight: 0.04032
273 - 426 -> Weight: 0.0193
381 - 427 -> Weight: 0.01864
91 - 428 -> Weight: 0.03028
175 - 429 -> Weight: 0.0524
215 - 430 -> Weight: 0.05587
274 - 431 -> Weight: 0.04572
31 - 432 -> Weight: 0.02031
250 - 433 -> Weight: 0.03044
356 - 434 -> Weight: 0.02657
275 - 435 -> Weight: 0.00349
13 - 436 -> Weight: 0.06942
266 - 437 -> Weight: 0.01495
39 - 438 -> Weight: 0.00751
326 - 439 -> Weight: 0.02211
357 - 440 -> Weight: 0.01939
120 - 441 -> Weight: 0.00931
61 - 442 -> Weight: 0.00719
168 - 443 -> Weight: 0.00673
165 - 444 -> Weight: 0.01702
397 - 445 -> Weight: 0.02155
368 - 446 -> Weight: 0.01602
89 - 447 -> Weight: 0.02883
66 - 448 -> Weight: 0.01495
132 - 449 -> Weight: 0.04126
218 - 450 -> Weight: 0.04021
393 - 451 -> Weight: 0.0196

238 - 452 -> Weight: 0.02145
59 - 453 -> Weight: 0.0135
272 - 454 -> Weight: 0.01212
203 - 455 -> Weight: 0.01901
24 - 456 -> Weight: 0.03534
419 - 457 -> Weight: 0.01232
240 - 458 -> Weight: 0.01044
148 - 459 -> Weight: 0.00459
93 - 460 -> Weight: 0.03622
147 - 461 -> Weight: 0.06535
352 - 462 -> Weight: 0.01363
389 - 463 -> Weight: 0.01184
443 - 464 -> Weight: 0.01671
157 - 465 -> Weight: 0.03277
290 - 466 -> Weight: 0.03807
303 - 467 -> Weight: 0.026
161 - 468 -> Weight: 0.00849
101 - 469 -> Weight: 0.01664
166 - 470 -> Weight: 0.019
216 - 471 -> Weight: 0.02998
65 - 472 -> Weight: 0.01524
356 - 473 -> Weight: 0.03644
118 - 474 -> Weight: 0.05666
2 - 475 -> Weight: 0.00978
235 - 476 -> Weight: 0.04825
315 - 477 -> Weight: 0.04449
294 - 478 -> Weight: 0.02627
396 - 479 -> Weight: 0.00885
212 - 480 -> Weight: 0.02142
56 - 481 -> Weight: 0.03866
191 - 482 -> Weight: 0.01562
293 - 483 -> Weight: 0.00874
201 - 484 -> Weight: 0.01854
350 - 485 -> Weight: 0.03038
431 - 486 -> Weight: 0.05043
219 - 487 -> Weight: 0.02739
219 - 488 -> Weight: 0.01993
15 - 489 -> Weight: 0.01998
423 - 490 -> Weight: 0.04043
291 - 491 -> Weight: 0.01067
113 - 492 -> Weight: 0.03516
322 - 493 -> Weight: 0.00736
483 - 494 -> Weight: 0.02066

310 - 495 -> Weight: 0.03015
110 - 496 -> Weight: 0.00473
432 - 497 -> Weight: 0.0168
127 - 498 -> Weight: 0.02144
153 - 499 -> Weight: 0.0041
301 - 500 -> Weight: 0.02051
265 - 501 -> Weight: 0.01546
425 - 502 -> Weight: 0.0247
464 - 503 -> Weight: 0.01702
495 - 504 -> Weight: 0.01491
37 - 505 -> Weight: 0.01398
408 - 506 -> Weight: 0.02766
418 - 507 -> Weight: 0.0168
221 - 508 -> Weight: 0.01636
94 - 509 -> Weight: 0.01437
245 - 510 -> Weight: 0.00695
253 - 511 -> Weight: 0.0157
100 - 512 -> Weight: 0.00329
410 - 513 -> Weight: 0.00748
9 - 514 -> Weight: 0.04843
415 - 515 -> Weight: 0.02519
256 - 516 -> Weight: 0.02032
348 - 517 -> Weight: 0.00705
444 - 518 -> Weight: 0.02088
367 - 519 -> Weight: 0.02934
515 - 520 -> Weight: 0.01906
247 - 521 -> Weight: 0.026
470 - 522 -> Weight: 0.01405
422 - 523 -> Weight: 0.03306
364 - 524 -> Weight: 0.02052
46 - 525 -> Weight: 0.03412
222 - 526 -> Weight: 0.04694
170 - 527 -> Weight: 0.00774
207 - 528 -> Weight: 0.03133
400 - 529 -> Weight: 0.006
80 - 530 -> Weight: 0.00999
73 - 531 -> Weight: 0.02934
161 - 532 -> Weight: 0.01962
456 - 533 -> Weight: 0.03793
411 - 534 -> Weight: 0.00743
473 - 535 -> Weight: 0.03008
117 - 536 -> Weight: 0.04089
228 - 537 -> Weight: 0.0272

44 - 538 -> Weight: 0.02473
18 - 539 -> Weight: 0.01009
396 - 540 -> Weight: 0.01599
218 - 541 -> Weight: 0.02641
397 - 542 -> Weight: 0.02093
144 - 543 -> Weight: 0.0096
246 - 544 -> Weight: 0.0164
440 - 545 -> Weight: 0.02482
490 - 546 -> Weight: 0.02213
408 - 547 -> Weight: 0.01644
510 - 548 -> Weight: 0.02647
118 - 549 -> Weight: 0.03811
426 - 550 -> Weight: 0.02299
176 - 551 -> Weight: 0.01974
272 - 552 -> Weight: 0.00489
204 - 553 -> Weight: 0.01696
332 - 554 -> Weight: 0.01724
269 - 555 -> Weight: 0.01534
523 - 556 -> Weight: 0.03519
223 - 557 -> Weight: 0.00595
0 - 558 -> Weight: 0.01791
281 - 559 -> Weight: 0.03057
72 - 560 -> Weight: 0.03957
348 - 561 -> Weight: 0.00815
145 - 562 -> Weight: 0.00516
33 - 563 -> Weight: 0.02712
429 - 564 -> Weight: 0.03239
48 - 565 -> Weight: 0.00401
93 - 566 -> Weight: 0.02496
226 - 567 -> Weight: 0.0242
521 - 568 -> Weight: 0.01937
356 - 569 -> Weight: 0.01362
141 - 570 -> Weight: 0.00739
234 - 571 -> Weight: 0.01679
228 - 572 -> Weight: 0.02465
488 - 573 -> Weight: 0.01627
418 - 574 -> Weight: 0.02728
435 - 575 -> Weight: 0.03756
119 - 576 -> Weight: 0.00652
346 - 577 -> Weight: 0.01768
61 - 578 -> Weight: 0.03979
377 - 579 -> Weight: 0.02445
401 - 580 -> Weight: 0.01998

454 - 581 -> Weight: 0.01366
159 - 582 -> Weight: 0.00698
228 - 583 -> Weight: 0.01383
27 - 584 -> Weight: 0.0221
114 - 585 -> Weight: 0.02968
212 - 586 -> Weight: 0.02364
208 - 587 -> Weight: 0.02814
380 - 588 -> Weight: 0.00591
30 - 589 -> Weight: 0.02029
303 - 590 -> Weight: 0.02448
483 - 591 -> Weight: 0.0094
149 - 592 -> Weight: 0.02581
286 - 593 -> Weight: 0.00875
85 - 594 -> Weight: 0.02433
130 - 595 -> Weight: 0.01625
207 - 596 -> Weight: 0.02338
229 - 597 -> Weight: 0.0185
579 - 598 -> Weight: 0.00969
377 - 599 -> Weight: 0.0281
520 - 600 -> Weight: 0.04656
435 - 601 -> Weight: 0.01919
287 - 602 -> Weight: 0.00738
49 - 603 -> Weight: 0.00856
466 - 604 -> Weight: 0.03785
395 - 605 -> Weight: 0.02458
465 - 606 -> Weight: 0.01791
343 - 607 -> Weight: 0.04514
114 - 608 -> Weight: 0.01214
338 - 609 -> Weight: 0.00563
487 - 610 -> Weight: 0.01253
65 - 611 -> Weight: 0.01425
598 - 612 -> Weight: 0.01714
370 - 613 -> Weight: 0.02958
484 - 614 -> Weight: 0.00317
469 - 615 -> Weight: 0.00719
109 - 616 -> Weight: 0.02626
42 - 617 -> Weight: 0.02495
605 - 618 -> Weight: 0.01527
213 - 619 -> Weight: 0.02123
106 - 620 -> Weight: 0.02459
269 - 621 -> Weight: 0.01884
200 - 622 -> Weight: 0.00525
456 - 623 -> Weight: 0.02086

401 - 624 -> Weight: 0.02186
519 - 625 -> Weight: 0.02094
373 - 626 -> Weight: 0.01789
504 - 627 -> Weight: 0.0184
294 - 628 -> Weight: 0.0191
127 - 629 -> Weight: 0.01688
426 - 630 -> Weight: 0.00661
436 - 631 -> Weight: 0.03868
277 - 632 -> Weight: 0.02336
296 - 633 -> Weight: 0.02342
211 - 634 -> Weight: 0.01082
516 - 635 -> Weight: 0.02956
600 - 636 -> Weight: 0.03194
79 - 637 -> Weight: 0.02552
11 - 638 -> Weight: 0.01942
281 - 639 -> Weight: 0.01577
30 - 640 -> Weight: 0.00637
102 - 641 -> Weight: 0.00592
20 - 642 -> Weight: 0.006
154 - 643 -> Weight: 0.01982
139 - 644 -> Weight: 0.01708
91 - 645 -> Weight: 0.01957
429 - 646 -> Weight: 0.02321
521 - 647 -> Weight: 0.00689
227 - 648 -> Weight: 0.03335
611 - 649 -> Weight: 0.03533
598 - 650 -> Weight: 0.03878
58 - 651 -> Weight: 0.02916
237 - 652 -> Weight: 0.02101
140 - 653 -> Weight: 0.03397
585 - 654 -> Weight: 0.01576
413 - 655 -> Weight: 0.0181
10 - 656 -> Weight: 0.01064
289 - 657 -> Weight: 0.00821
318 - 658 -> Weight: 0.03715
526 - 659 -> Weight: 0.03505
649 - 660 -> Weight: 0.03569
267 - 661 -> Weight: 0.00605
439 - 662 -> Weight: 0.01298
220 - 663 -> Weight: 0.02533
563 - 664 -> Weight: 0.01212
369 - 665 -> Weight: 0.00476
528 - 666 -> Weight: 0.02476

231 - 667 -> Weight: 0.0139
87 - 668 -> Weight: 0.02919
331 - 669 -> Weight: 0.03077
194 - 670 -> Weight: 0.04226
385 - 671 -> Weight: 0.02191
643 - 672 -> Weight: 0.02405
109 - 673 -> Weight: 0.04088
162 - 674 -> Weight: 0.02445
514 - 675 -> Weight: 0.01448
292 - 676 -> Weight: 0.02881
368 - 677 -> Weight: 0.02422
69 - 678 -> Weight: 0.02015
58 - 679 -> Weight: 0.01397
123 - 680 -> Weight: 0.02542
540 - 681 -> Weight: 0.03631
184 - 682 -> Weight: 0.01764
373 - 683 -> Weight: 0.01793
263 - 684 -> Weight: 0.01643
458 - 685 -> Weight: 0.01826
113 - 686 -> Weight: 0.01529
234 - 687 -> Weight: 0.0405
26 - 688 -> Weight: 0.00285
687 - 689 -> Weight: 0.03419
77 - 690 -> Weight: 0.02185
588 - 691 -> Weight: 0.03091
343 - 692 -> Weight: 0.03878
24 - 693 -> Weight: 0.01723
599 - 694 -> Weight: 0.0162
439 - 695 -> Weight: 0.00524
526 - 696 -> Weight: 0.02953
125 - 697 -> Weight: 0.01677
596 - 698 -> Weight: 0.02462
685 - 699 -> Weight: 0.0366
252 - 700 -> Weight: 0.01862
249 - 701 -> Weight: 0.01513
124 - 702 -> Weight: 0.00835
463 - 703 -> Weight: 0.0152
291 - 704 -> Weight: 0.01655
682 - 705 -> Weight: 0.02318
497 - 706 -> Weight: 0.01343
353 - 707 -> Weight: 0.00721
476 - 708 -> Weight: 0.02304
633 - 709 -> Weight: 0.02361

387 - 710 -> Weight: 0.00858
450 - 711 -> Weight: 0.0247
263 - 712 -> Weight: 0.00518
506 - 713 -> Weight: 0.03518
386 - 714 -> Weight: 0.0238
275 - 715 -> Weight: 0.02521
649 - 716 -> Weight: 0.01729
224 - 717 -> Weight: 0.01216
105 - 718 -> Weight: 0.02538
612 - 719 -> Weight: 0.0118
318 - 720 -> Weight: 0.02951
659 - 721 -> Weight: 0.01631
14 - 722 -> Weight: 0.0262
671 - 723 -> Weight: 0.02513
636 - 724 -> Weight: 0.0146
28 - 725 -> Weight: 0.03442
548 - 726 -> Weight: 0.00694
471 - 727 -> Weight: 0.02081
128 - 728 -> Weight: 0.02314
295 - 729 -> Weight: 0.01955
392 - 730 -> Weight: 0.01225
149 - 731 -> Weight: 0.03094
461 - 732 -> Weight: 0.03098
687 - 733 -> Weight: 0.02318
292 - 734 -> Weight: 0.02004
464 - 735 -> Weight: 0.03078
211 - 736 -> Weight: 0.01495
375 - 737 -> Weight: 0.02638
282 - 738 -> Weight: 0.01037
300 - 739 -> Weight: 0.02066
452 - 740 -> Weight: 0.04814
104 - 741 -> Weight: 0.01643
372 - 742 -> Weight: 0.02849
186 - 743 -> Weight: 0.02576
235 - 744 -> Weight: 0.01729
384 - 745 -> Weight: 0.01317
125 - 746 -> Weight: 0.02784
485 - 747 -> Weight: 0.024
645 - 748 -> Weight: 0.01279
740 - 749 -> Weight: 0.02577
298 - 750 -> Weight: 0.03635
346 - 751 -> Weight: 0.01059
525 - 752 -> Weight: 0.03445

624 - 753 -> Weight: 0.01989
109 - 754 -> Weight: 0.02671
180 - 755 -> Weight: 0.02052
354 - 756 -> Weight: 0.01104
736 - 757 -> Weight: 0.00898
224 - 758 -> Weight: 0.0132
430 - 759 -> Weight: 0.0242
749 - 760 -> Weight: 0.0157
268 - 761 -> Weight: 0.024
287 - 762 -> Weight: 0.02088
686 - 763 -> Weight: 0.02792
538 - 764 -> Weight: 0.00773
205 - 765 -> Weight: 0.01125
701 - 766 -> Weight: 0.02162
239 - 767 -> Weight: 0.00454
380 - 768 -> Weight: 0.00167
245 - 769 -> Weight: 0.02797
461 - 770 -> Weight: 0.03793
299 - 771 -> Weight: 0.00795
290 - 772 -> Weight: 0.01676
315 - 773 -> Weight: 0.02198
616 - 774 -> Weight: 0.03116
124 - 775 -> Weight: 0.01986
457 - 776 -> Weight: 0.00969
88 - 777 -> Weight: 0.00938
81 - 778 -> Weight: 0.02962
739 - 779 -> Weight: 0.04111
430 - 780 -> Weight: 0.00512
691 - 781 -> Weight: 0.00798
638 - 782 -> Weight: 0.03244
516 - 783 -> Weight: 0.01357
143 - 784 -> Weight: 0.02824
8 - 785 -> Weight: 0.0126
520 - 786 -> Weight: 0.01388
659 - 787 -> Weight: 0.02895
158 - 788 -> Weight: 0.02125
414 - 789 -> Weight: 0.01457
477 - 790 -> Weight: 0.03731
596 - 791 -> Weight: 0.00908
699 - 792 -> Weight: 0.01228
746 - 793 -> Weight: 0.01093
116 - 794 -> Weight: 0.01729
403 - 795 -> Weight: 0.02925

631 - 796 -> Weight: 0.03511
650 - 797 -> Weight: 0.02281
185 - 798 -> Weight: 0.02001
778 - 799 -> Weight: 0.01555
374 - 800 -> Weight: 0.0292
174 - 801 -> Weight: 0.00584
118 - 802 -> Weight: 0.02339
131 - 803 -> Weight: 0.01847
56 - 804 -> Weight: 0.04127
490 - 805 -> Weight: 0.03285
486 - 806 -> Weight: 0.02408
783 - 807 -> Weight: 0.01378
455 - 808 -> Weight: 0.00452
412 - 809 -> Weight: 0.01889
314 - 810 -> Weight: 0.04867
542 - 811 -> Weight: 0.01322
202 - 812 -> Weight: 0.02047
45 - 813 -> Weight: 0.0165
359 - 814 -> Weight: 0.01267
205 - 815 -> Weight: 0.02418
306 - 816 -> Weight: 0.005
172 - 817 -> Weight: 0.01871
587 - 818 -> Weight: 0.02333
723 - 819 -> Weight: 0.01077
284 - 820 -> Weight: 0.01548
87 - 821 -> Weight: 0.03399
193 - 822 -> Weight: 0.01903
607 - 823 -> Weight: 0.00245
312 - 824 -> Weight: 0.02737
3 - 825 -> Weight: 0.0186
68 - 826 -> Weight: 0.00829
374 - 827 -> Weight: 0.01771
532 - 828 -> Weight: 0.02721
696 - 829 -> Weight: 0.03757
145 - 830 -> Weight: 0.01235
812 - 831 -> Weight: 0.0197
665 - 832 -> Weight: 0.01527
144 - 833 -> Weight: 0.01155
436 - 834 -> Weight: 0.00701
711 - 835 -> Weight: 0.00757
157 - 836 -> Weight: 0.01241
269 - 837 -> Weight: 0.01811
55 - 838 -> Weight: 0.0096

789 - 839 -> Weight: 0.01003
578 - 840 -> Weight: 0.03283
696 - 841 -> Weight: 0.01585
369 - 842 -> Weight: 0.01028
692 - 843 -> Weight: 0.01188
113 - 844 -> Weight: 0.01916
477 - 845 -> Weight: 0.02859
574 - 846 -> Weight: 0.00999
286 - 847 -> Weight: 0.02946
298 - 848 -> Weight: 0.01266
332 - 849 -> Weight: 0.00687
419 - 850 -> Weight: 0.00465
467 - 851 -> Weight: 0.01482
190 - 852 -> Weight: 0.01579
618 - 853 -> Weight: 0.00644
374 - 854 -> Weight: 0.0158
591 - 855 -> Weight: 0.0045
16 - 856 -> Weight: 0.01482
273 - 857 -> Weight: 0.03803
415 - 858 -> Weight: 0.04301
208 - 859 -> Weight: 0.0131
678 - 860 -> Weight: 0.00968
262 - 861 -> Weight: 0.02982
733 - 862 -> Weight: 0.01518
843 - 863 -> Weight: 0.04521
399 - 864 -> Weight: 0.01003
527 - 865 -> Weight: 0.02224
113 - 866 -> Weight: 0.01603
528 - 867 -> Weight: 0.03363
741 - 868 -> Weight: 0.02569
628 - 869 -> Weight: 0.03298
167 - 870 -> Weight: 0.0124
798 - 871 -> Weight: 0.00824
430 - 872 -> Weight: 0.043
319 - 873 -> Weight: 0.01134
257 - 874 -> Weight: 0.0039
228 - 875 -> Weight: 0.00951
692 - 876 -> Weight: 0.01581
594 - 877 -> Weight: 0.03064
657 - 878 -> Weight: 0.02142
653 - 879 -> Weight: 0.01654
592 - 880 -> Weight: 0.02555
627 - 881 -> Weight: 0.00958

94 - 882 -> Weight: 0.02836
578 - 883 -> Weight: 0.00993
648 - 884 -> Weight: 0.00957
508 - 885 -> Weight: 0.01198
874 - 886 -> Weight: 0.03409
786 - 887 -> Weight: 0.01898
543 - 888 -> Weight: 0.00875
220 - 889 -> Weight: 0.02215
424 - 890 -> Weight: 0.01844
675 - 891 -> Weight: 0.01433
415 - 892 -> Weight: 0.02207
139 - 893 -> Weight: 0.01252
821 - 894 -> Weight: 0.01194
877 - 895 -> Weight: 0.01697
184 - 896 -> Weight: 0.01121
162 - 897 -> Weight: 0.01
724 - 898 -> Weight: 0.02573
102 - 899 -> Weight: 0.00347
607 - 900 -> Weight: 0.02134
824 - 901 -> Weight: 0.01483
384 - 902 -> Weight: 0.01397
160 - 903 -> Weight: 0.01314
704 - 904 -> Weight: 0.01174
3 - 905 -> Weight: 0.02536
154 - 906 -> Weight: 0.00423
753 - 907 -> Weight: 0.00895
41 - 908 -> Weight: 0.02721
478 - 909 -> Weight: 0.01835
467 - 910 -> Weight: 0.02055
307 - 911 -> Weight: 0.0266
274 - 912 -> Weight: 0.02795
531 - 913 -> Weight: 0.01606
545 - 914 -> Weight: 0.01549
329 - 915 -> Weight: 0.01828
684 - 916 -> Weight: 0.00238
636 - 917 -> Weight: 0.03332
191 - 918 -> Weight: 0.02053
253 - 919 -> Weight: 0.01465
544 - 920 -> Weight: 0.00454
148 - 921 -> Weight: 0.01908
580 - 922 -> Weight: 0.0221
671 - 923 -> Weight: 0.02098
492 - 924 -> Weight: 0.02522

307 - 925 -> Weight: 0.01556
54 - 926 -> Weight: 0.01833
482 - 927 -> Weight: 0.00318
15 - 928 -> Weight: 0.01865
75 - 929 -> Weight: 0.01865
222 - 930 -> Weight: 0.01369
274 - 931 -> Weight: 0.00689
752 - 932 -> Weight: 0.01379
674 - 933 -> Weight: 0.02031
860 - 934 -> Weight: 0.00536
611 - 935 -> Weight: 0.01385
422 - 936 -> Weight: 0.01839
646 - 937 -> Weight: 0.02537
231 - 938 -> Weight: 0.00514
727 - 939 -> Weight: 0.0162
741 - 940 -> Weight: 0.00727
822 - 941 -> Weight: 0.01505
739 - 942 -> Weight: 0.02589
935 - 943 -> Weight: 0.01266
933 - 944 -> Weight: 0.02367
943 - 945 -> Weight: 0.02586
278 - 946 -> Weight: 0.01761
674 - 947 -> Weight: 0.00895
546 - 948 -> Weight: 0.02385
143 - 949 -> Weight: 0.00884
138 - 950 -> Weight: 0.01787
325 - 951 -> Weight: 0.00294
363 - 952 -> Weight: 0.03198
2 - 953 -> Weight: 0.00842
446 - 954 -> Weight: 0.00851
660 - 955 -> Weight: 0.03227
5 - 956 -> Weight: 0.00858
390 - 957 -> Weight: 8.0E-4
0 - 958 -> Weight: 0.01083
144 - 959 -> Weight: 0.00623
307 - 960 -> Weight: 0.00627
601 - 961 -> Weight: 0.01253
410 - 962 -> Weight: 0.00154
302 - 963 -> Weight: 0.02431
49 - 964 -> Weight: 0.00337
523 - 965 -> Weight: 0.03079
241 - 966 -> Weight: 0.00565
733 - 967 -> Weight: 0.0141

478 - 968 -> Weight: 0.03305
627 - 969 -> Weight: 0.01428
214 - 970 -> Weight: 0.02917
547 - 971 -> Weight: 0.01203
764 - 972 -> Weight: 0.00489
414 - 973 -> Weight: 0.03162
10 - 974 -> Weight: 0.01225
92 - 975 -> Weight: 0.01584
910 - 976 -> Weight: 0.01405
415 - 977 -> Weight: 0.02355
866 - 978 -> Weight: 0.00436
942 - 979 -> Weight: 0.01027
765 - 980 -> Weight: 0.01596
580 - 981 -> Weight: 0.01734
455 - 982 -> Weight: 0.02851
705 - 983 -> Weight: 0.01262
702 - 984 -> Weight: 0.01014
408 - 985 -> Weight: 0.02445
465 - 986 -> Weight: 0.00669
948 - 987 -> Weight: 0.01489
524 - 988 -> Weight: 0.01103
921 - 989 -> Weight: 0.02107
723 - 990 -> Weight: 0.01353
667 - 991 -> Weight: 0.02247
708 - 992 -> Weight: 0.02
779 - 993 -> Weight: 0.00532
363 - 994 -> Weight: 0.02183
614 - 995 -> Weight: 0.02233
621 - 996 -> Weight: 0.0225
486 - 997 -> Weight: 0.008
933 - 998 -> Weight: 0.02065
22 - 999 -> Weight: 0.01676
Final Weight: 23.50267

For XtraLargeGraph.txt:

5598 - 7398 -> Weight: 0.00617
1664 - 7399 -> Weight: 0.00958
3969 - 7400 -> Weight: 0.01224
1457 - 7401 -> Weight: 0.00778
3389 - 7402 -> Weight: 0.00374
543 - 7403 -> Weight: 0.01128

1562 - 7404 -> Weight: 0.00461
1792 - 7405 -> Weight: 0.00644
247 - 7406 -> Weight: 0.00739
5365 - 7407 -> Weight: 0.00459
6677 - 7408 -> Weight: 0.00709
1987 - 7409 -> Weight: 0.00905
7315 - 7410 -> Weight: 0.00983
2223 - 7411 -> Weight: 0.00957
890 - 7412 -> Weight: 0.00173
4167 - 7413 -> Weight: 0.00549
5498 - 7414 -> Weight: 0.00254
110 - 7415 -> Weight: 0.00692
1664 - 7416 -> Weight: 0.00564
2082 - 7417 -> Weight: 0.00435
1991 - 7418 -> Weight: 0.00661
5947 - 7419 -> Weight: 0.00359
6071 - 7420 -> Weight: 0.00104
1272 - 7421 -> Weight: 0.00482
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2179 - 9768 -> Weight: 0.00166

5231 - 9769 -> Weight: 0.00936
8377 - 9770 -> Weight: 0.0052
7282 - 9771 -> Weight: 0.00779
4283 - 9772 -> Weight: 0.00197
3523 - 9773 -> Weight: 0.00535
5074 - 9774 -> Weight: 0.00357
2987 - 9775 -> Weight: 0.00516
4936 - 9776 -> Weight: 0.01064
5324 - 9777 -> Weight: 0.0042
244 - 9778 -> Weight: 0.00793
3234 - 9779 -> Weight: 0.00366
9529 - 9780 -> Weight: 0.00564
5289 - 9781 -> Weight: 0.00293
4332 - 9782 -> Weight: 0.00304
5572 - 9783 -> Weight: 0.00335
929 - 9784 -> Weight: 0.00554
5352 - 9785 -> Weight: 0.0039
7807 - 9786 -> Weight: 0.00398
7014 - 9787 -> Weight: 0.00292
4300 - 9788 -> Weight: 0.00317
3786 - 9789 -> Weight: 0.00929
4676 - 9790 -> Weight: 0.004
1007 - 9791 -> Weight: 0.01438
3124 - 9792 -> Weight: 0.01012
3106 - 9793 -> Weight: 0.00307
8618 - 9794 -> Weight: 0.00549
3200 - 9795 -> Weight: 0.00221
9171 - 9796 -> Weight: 0.00812
3370 - 9797 -> Weight: 0.00447
4579 - 9798 -> Weight: 0.00832
5719 - 9799 -> Weight: 0.00821
7764 - 9800 -> Weight: 0.00527
3235 - 9801 -> Weight: 0.0046
2222 - 9802 -> Weight: 0.00775
3621 - 9803 -> Weight: 0.00224
1316 - 9804 -> Weight: 0.00148
8368 - 9805 -> Weight: 0.01099
4409 - 9806 -> Weight: 0.00741
5927 - 9807 -> Weight: 0.00207
9724 - 9808 -> Weight: 0.00697
3662 - 9809 -> Weight: 0.00437
8573 - 9810 -> Weight: 0.00793
7145 - 9811 -> Weight: 0.00147

1872 - 9812 -> Weight: 0.00266
6902 - 9813 -> Weight: 0.00942
1762 - 9814 -> Weight: 0.00307
4549 - 9815 -> Weight: 0.00615
8325 - 9816 -> Weight: 0.00355
132 - 9817 -> Weight: 0.00606
5175 - 9818 -> Weight: 0.00478
282 - 9819 -> Weight: 0.00166
2071 - 9820 -> Weight: 0.00595
8962 - 9821 -> Weight: 0.00319
4604 - 9822 -> Weight: 0.0062
4279 - 9823 -> Weight: 0.008
2597 - 9824 -> Weight: 0.00638
7232 - 9825 -> Weight: 0.00711
3742 - 9826 -> Weight: 0.00801
7735 - 9827 -> Weight: 0.00261
3333 - 9828 -> Weight: 0.01068
3463 - 9829 -> Weight: 0.00509
3099 - 9830 -> Weight: 0.00604
7017 - 9831 -> Weight: 0.01121
6101 - 9832 -> Weight: 0.00202
3947 - 9833 -> Weight: 0.00607
156 - 9834 -> Weight: 0.00876
3411 - 9835 -> Weight: 0.00856
4495 - 9836 -> Weight: 0.00493
9061 - 9837 -> Weight: 0.00529
7958 - 9838 -> Weight: 0.00563
67 - 9839 -> Weight: 0.00329
6484 - 9840 -> Weight: 0.00552
1575 - 9841 -> Weight: 0.00726
1134 - 9842 -> Weight: 0.008
9304 - 9843 -> Weight: 0.00781
9562 - 9844 -> Weight: 0.00147
322 - 9845 -> Weight: 0.00441
3843 - 9846 -> Weight: 0.00131
5039 - 9847 -> Weight: 0.0016
5065 - 9848 -> Weight: 0.00534
986 - 9849 -> Weight: 0.00556
5155 - 9850 -> Weight: 0.0037
7855 - 9851 -> Weight: 0.00583
746 - 9852 -> Weight: 0.00492
3281 - 9853 -> Weight: 6.6E-4
2502 - 9854 -> Weight: 0.004

3077 - 9855 -> Weight: 0.00554
5590 - 9856 -> Weight: 0.00242
6626 - 9857 -> Weight: 0.00232
346 - 9858 -> Weight: 0.00214
8389 - 9859 -> Weight: 0.00332
3542 - 9860 -> Weight: 0.0039
7825 - 9861 -> Weight: 0.00391
9738 - 9862 -> Weight: 0.00358
9274 - 9863 -> Weight: 0.00173
1653 - 9864 -> Weight: 0.00532
831 - 9865 -> Weight: 0.0057
6656 - 9866 -> Weight: 0.00278
3154 - 9867 -> Weight: 0.00545
970 - 9868 -> Weight: 0.00548
840 - 9869 -> Weight: 0.00855
8880 - 9870 -> Weight: 0.01328
6394 - 9871 -> Weight: 8.5E-4
4478 - 9872 -> Weight: 0.00195
8425 - 9873 -> Weight: 0.00732
6434 - 9874 -> Weight: 0.00719
5626 - 9875 -> Weight: 0.00267
7833 - 9876 -> Weight: 0.00317
6400 - 9877 -> Weight: 0.00232
4030 - 9878 -> Weight: 0.00353
6441 - 9879 -> Weight: 0.00668
4136 - 9880 -> Weight: 0.00728
2127 - 9881 -> Weight: 0.00453
5413 - 9882 -> Weight: 0.00454
8106 - 9883 -> Weight: 9.0E-4
5269 - 9884 -> Weight: 0.00179
9764 - 9885 -> Weight: 0.01449
1097 - 9886 -> Weight: 0.0031
7615 - 9887 -> Weight: 0.00393
528 - 9888 -> Weight: 0.00462
6670 - 9889 -> Weight: 0.00318
4781 - 9890 -> Weight: 0.00715
9430 - 9891 -> Weight: 0.00961
2957 - 9892 -> Weight: 0.00305
6361 - 9893 -> Weight: 0.00124
917 - 9894 -> Weight: 9.6E-4
7352 - 9895 -> Weight: 0.00211
8447 - 9896 -> Weight: 0.00227
5071 - 9897 -> Weight: 0.00636

7951 - 9898 -> Weight: 0.00711
3801 - 9899 -> Weight: 0.00338
8230 - 9900 -> Weight: 0.00719
9190 - 9901 -> Weight: 0.00537
4399 - 9902 -> Weight: 0.00683
3072 - 9903 -> Weight: 0.00184
3747 - 9904 -> Weight: 0.00635
3400 - 9905 -> Weight: 0.00547
7464 - 9906 -> Weight: 0.00526
9225 - 9907 -> Weight: 0.00794
4076 - 9908 -> Weight: 0.01457
3780 - 9909 -> Weight: 0.00787
8246 - 9910 -> Weight: 0.00421
1352 - 9911 -> Weight: 0.00381
9826 - 9912 -> Weight: 0.00217
369 - 9913 -> Weight: 0.00257
9015 - 9914 -> Weight: 0.0013
9043 - 9915 -> Weight: 0.00479
4739 - 9916 -> Weight: 0.00183
4706 - 9917 -> Weight: 0.00742
3982 - 9918 -> Weight: 0.0084
626 - 9919 -> Weight: 0.00421
3703 - 9920 -> Weight: 0.00708
59 - 9921 -> Weight: 0.00311
4203 - 9922 -> Weight: 0.00412
656 - 9923 -> Weight: 0.0064
6534 - 9924 -> Weight: 0.00385
4632 - 9925 -> Weight: 0.00587
6820 - 9926 -> Weight: 0.00231
9811 - 9927 -> Weight: 0.00696
8783 - 9928 -> Weight: 0.00627
3999 - 9929 -> Weight: 0.00604
3545 - 9930 -> Weight: 0.00182
2938 - 9931 -> Weight: 0.0067
7449 - 9932 -> Weight: 0.00447
4265 - 9933 -> Weight: 0.00564
5061 - 9934 -> Weight: 0.00358
290 - 9935 -> Weight: 0.00792
3837 - 9936 -> Weight: 0.00647
6908 - 9937 -> Weight: 0.01021
8038 - 9938 -> Weight: 0.00332
3422 - 9939 -> Weight: 0.01116
1941 - 9940 -> Weight: 0.00161

327 - 9941 -> Weight: 9.8E-4
1326 - 9942 -> Weight: 0.00316
5402 - 9943 -> Weight: 0.00639
3022 - 9944 -> Weight: 0.0056
319 - 9945 -> Weight: 0.00527
2398 - 9946 -> Weight: 0.00649
3705 - 9947 -> Weight: 0.00798
9249 - 9948 -> Weight: 0.00749
7876 - 9949 -> Weight: 0.00359
1470 - 9950 -> Weight: 0.0072
8388 - 9951 -> Weight: 0.00196
6635 - 9952 -> Weight: 0.00736
8793 - 9953 -> Weight: 0.0049
2228 - 9954 -> Weight: 0.00542
3123 - 9955 -> Weight: 0.00609
3627 - 9956 -> Weight: 0.00749
3823 - 9957 -> Weight: 0.00745
9513 - 9958 -> Weight: 0.00299
8235 - 9959 -> Weight: 0.00362
9144 - 9960 -> Weight: 0.00553
862 - 9961 -> Weight: 0.00398
5777 - 9962 -> Weight: 0.01301
3289 - 9963 -> Weight: 0.00772
3144 - 9964 -> Weight: 0.00408
574 - 9965 -> Weight: 0.00901
2149 - 9966 -> Weight: 0.00506
2193 - 9967 -> Weight: 0.0016
9152 - 9968 -> Weight: 0.00389
895 - 9969 -> Weight: 0.00352
157 - 9970 -> Weight: 0.00725
1953 - 9971 -> Weight: 0.00308
7070 - 9972 -> Weight: 0.00491
4926 - 9973 -> Weight: 0.01167
2746 - 9974 -> Weight: 0.00557
3975 - 9975 -> Weight: 0.00345
2461 - 9976 -> Weight: 0.00919
8355 - 9977 -> Weight: 0.00641
6708 - 9978 -> Weight: 0.00365
4361 - 9979 -> Weight: 0.00335
5558 - 9980 -> Weight: 0.00241
4394 - 9981 -> Weight: 0.0072
80 - 9982 -> Weight: 0.0033
2370 - 9983 -> Weight: 0.00281

4296 - 9984 -> Weight: 0.00263
1514 - 9985 -> Weight: 0.00254
9833 - 9986 -> Weight: 0.00305
2820 - 9987 -> Weight: 0.00497
3305 - 9988 -> Weight: 0.00767
2201 - 9989 -> Weight: 9.3E-4
8328 - 9990 -> Weight: 0.00242
3448 - 9991 -> Weight: 0.00934
9929 - 9992 -> Weight: 0.00389
7875 - 9993 -> Weight: 0.00662
6980 - 9994 -> Weight: 0.00831
782 - 9995 -> Weight: 0.00291
8892 - 9996 -> Weight: 0.00223
9898 - 9997 -> Weight: 0.00474
8258 - 9998 -> Weight: 0.00235
4672 - 9999 -> Weight: 0.00151
Final Weight: 68.15759

4. Conclusion

The use of weighted graphs can be very interesting for a lot of useful applications, like maps and routes, and this is extremely important. The implementation of the Prim's Algorithm that was a little bit confusing and I'm not sure if it is right. The provided algorithm is confusing and not documented so I could not finish it. I implemented in another way in the MSTPrim.java and tried to implement as demanded at the MSTPrim2.java but the code is not working.