

שגיאות/בעיות במהלך העבודה :

תחילה אנו קוראים מהקובץ נתונים , נתונים אלו מסדרים אותם בצורה
הכי נוחה לנו בכדי לעבוד ולמצוא את המסלול הקצר ביותר .

בקליטה מקובץ נתקלנו בבעיה שיש הרבה רווחים שלא טופלו בקודה –
split ויש תאים במערך המחרוזות שהחזיק בתוכו מחרוזת ריקה כי היה
יותר מדי רווחים באותה שורה לכן היינו חייבים למצוא פתרון כללי לבעיה
זו ולא להגביל את עצמנו בסוג מסוים של קבצים .
כי מכיוון שנקלט מהקובץ רווחים אז יש צלעות שלא נקלטו כמו שצריך
ואפשר לראות זאת בתמונה.



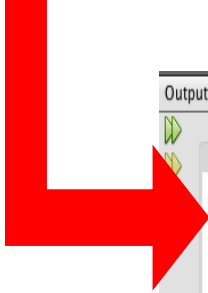
```
graphs (run)
E=2546, V=250
0 -> 114 @ 0.0961, 149 @ 0.09659, 160 @ 0.11714, 163 @ 0.09368, 176 @ 0.08927, 191 @ 0.10711, 202 @ 0.04678, 204 @ 0.05476, 209 @ 0.095
1 -> 103 @ 0.0658, 133 @ 0.08099, 174 @ 0.06827, 192 @ 0.07056,
2 -> 108 @ 0.05491, 110 @ 0.07783, 122 @ 0.0509, 125 @ 0.10521, 139 @ 0.03983, 156 @ 0.0993, 157 @ 0.10869, 181 @ 0.10336, 196 @ 0.03
3 -> 174 @ 0.03708, 192 @ 0.04287, 243 @ 0.05731, 100 @ 0.0658,
4 -> 144 @ 0.08161, 185 @ 0.07936, 201 @ 0.02597, 217 @ 0.09568, 232 @ 0.04888, 248 @ 0.0664,
5 -> 106 @ 0.01034, 123 @ 0.10392, 131 @ 0.03234, 143 @ 0.07217, 193 @ 0.03141, 243 @ 0.11674, 246 @ 0.11604,
6 -> 123 @ 0.11362, 131 @ 0.02227, 143 @ 0.06821, 179 @ 0.1193, 193 @ 0.02119, 243 @ 0.1094, 246 @ 0.11883, 105 @ 0.01034,
7 -> 130 @ 0.11436, 173 @ 0.08976, 200 @ 0.08254, 203 @ 0.11594, |
8 -> 110 @ 0.06803, 122 @ 0.08214, 135 @ 0.11644, 139 @ 0.07724, 156 @ 0.10525, 181 @ 0.10766, 196 @ 0.03132, 205 @ 0.08755, 214 @ 0.
9 -> 126 @ 0.09332, 137 @ 0.05083, 146 @ 0.0842, 183 @ 0.06517, 215 @ 0.06179, 218 @ 0.07179,
10 -> 122 @ 0.05351, 139 @ 0.06016, 156 @ 0.03963, 196 @ 0.05323, 205 @ 0.05391, 207 @ 0.11522, 210 @ 0.08364, 212 @ 0.1155, 214 @ 0.
11 -> 128 @ 0.0996, 136 @ 0.05632, 159 @ 0.04347, 234 @ 0.08047, 239 @ 0.10722,
12 -> 121 @ 0.05379, 158 @ 0.09842, 170 @ 0.07229, 182 @ 0.08536, 198 @ 0.05009, 223 @ 0.04665, 242 @ 0.05551,
13 -> 163 @ 0.05526, 176 @ 0.08339, 191 @ 0.10158, 202 @ 0.07319, 204 @ 0.11526, 209 @ 0.07685, 211 @ 0.06713, 222 @ 0.0206, 225 @ 0.
14 -> 153 @ 0.05136, 230 @ 0.08134, 241 @ 0.0673
15 -> 152 @ 0.05136, 230 @ 0.08134, 241 @ 0.0673
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165 -> 2 @ 0.05136, 230 @ 0.08134, 241 @ 0.0673
166 -> 1 @ 0.05136, 230 @ 0.08134, 241 @ 0.0673
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237 -> 98 @ 0.05136, 230 @ 0.08134, 241 @ 0.0673
238 -> 97 @ 0.05136, 230
```

טיפולנו בבעיה זו בעזרת הפקודה trim() שמוחקת רווחים מיותרים
וגם כן ב- split("\\s+")

נעזרנו והבנו יותר מאתר זה :

<http://stackoverflow.com/questions/225337/how-do-i-split-a-string-with-any-whitespace-chars-as-delimiters>

בתמונה אפשר לראות שאחרי הוספת פקודות אלו לקוד הצלחנו למצוא
את כל הצלעות בגרף



```
run:
E countert=2546 , E=2546, V=250
Representation of WeighedDigraph
0 -> 15 @ 0.05719, 24 @ 0.10191, 44 @ 0.06471, 49 @ 0.04849, 58 @ 0.09955, 59 @ 0.10657, 68 @ 0.11816, 80 @ 0.06821, 97 @ 0.07705, 114 @ 0.
1 -> 72 @ 0.06506, 107 @ 0.07484, 130 @ 0.10203, 150 @ 0.10908, 164 @ 0.11039, 189 @ 0.09582, 194 @ 0.11069, 200 @ 0.0955, 203 @ 0.08567, :
2 -> 14 @ 0.08765, 18 @ 0.07425, 42 @ 0.11456, 51 @ 0.05083, 79 @ 0.11759, 86 @ 0.0598, 108 @ 0.09627, 110 @ 0.11746, 141 @ 0.11373,
3 -> 37 @ 0.08512, 45 @ 0.11902, 67 @ 0.09725, 76 @ 0.08069, 115 @ 0.09861, 153 @ 0.04799, 228 @ 0.07635, 241 @ 0.07024,
4 -> 5 @ 0.11184, 26 @ 0.08347, 55 @ 0.06425, 77 @ 0.10733, 78 @ 0.02559, 112 @ 0.08751, 128 @ 0.04751, 138 @ 0.11375, 159 @ 0.10114, 239 @
5 -> 26 @ 0.03351, 32 @ 0.11054, 55 @ 0.11131, 67 @ 0.1088, 77 @ 0.05505, 102 @ 0.03834, 104 @ 0.11574, 217 @ 0.09458, 226 @ 0.11433, 4 @
6 -> 16 @ 0.04529, 54 @ 0.11235, 98 @ 0.09893, 99 @ 0.11022, 117 @ 0.08821, 129 @ 0.05363, 140 @ 0.10829, 147 @ 0.07924, 166 @ 0.06998, 171
7 -> 42 @ 0.11616, 57 @ 0.06795, 65 @ 0.09235, 71 @ 0.11091, 101 @ 0.10577, 125 @ 0.02442, 148 @ 0.02175, 157 @ 0.00516, 181 @ 0.05778, 18
8 -> 11 @ 0.04709, 30 @ 0.03985, 43 @ 0.09334, 82 @ 0.07286, 85 @ 0.11331, 143 @ 0.07437, 152 @ 0.00702, 179 @ 0.09533, 207 @ 0.09011, 210
9 -> 23 @ 0.03526, 33 @ 0.08216, 58 @ 0.10398, 68 @ 0.09604, 114 @ 0.11445, 142 @ 0.10955, 195 @ 0.04585,
10 -> 105 @ 0.11028, 106 @ 0.11976, 123 @ 0.00886, 175 @ 0.07429, 246 @ 0.09977,
11 -> 30 @ 0.08689, 43 @ 0.10208, 82 @ 0.03687, 85 @ 0.06928, 143 @ 0.08708, 152 @ 0.0414, 175 @ 0.09935, 207 @ 0.11101, 212 @ 0.09716, 24
12 -> 28 @ 0.06032, 35 @ 0.06079, 36 @ 0.08058, 41 @ 0.06364, 88 @ 0.07461, 94 @ 0.08239, 113 @ 0.09906, 121 @ 0.08542, 170 @ 0.11918, 182
13 -> 19 @ 0.08927, 100 @ 0.0256, 103 @ 0.08741, 129 @ 0.10843, 133 @ 0.06257, 162 @ 0.11602, 174 @ 0.09377, 192 @ 0.08128,
14 -> 18 @ 0.07335, 51 @ 0.09603, 86 @ 0.09145, 129 @ 0.10737, 133 @ 0.06649, 166 @ 0.08096, 2 @ 0.08765,
15 -> 74 @ 0.04507, 70 @ 0.08051, 10 @ 0.10510, 58 @ 0.10462, 66 @ 0.11707, 80 @ 0.08217, 114 @ 0.09104, 140 @ 0.04756, 163 @ 0.05580, 187
```

בכל פעם שקראנו שורה מקובץ הטסטר חוץ מהשורה הראשונה היינו
משנים בגרף הראשי וזה נשמר לאורך לכן זה היה מוציא לנו פלט לא נכון.
בכדי לפתור בעיה זו בכל פעם שקראנו שורה עבדנו לא על הגרף עצמו
או שייצרנו מחדש דבר זה לא ישפיע על השורות שבאות אחרי .

