

unknown

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80 cord_individual_obj[indivial_i,:] = [16. 6. 81. 87.]
81 cord_individual_obj[indivial_i,:] = [17. 8. 95. 103.]
82 cord_individual_obj[indivial_i,:] = [18. 8. 105. 113.]
83 cord_individual_obj[indivial_i,:] = [19. 7. 103. 110.]
84 cord_individual_obj[indivial_i,:] = [20. 7. 97. 104.]
85 cord_individual_obj[indivial_i,:] = [21. 9. 90. 99.]
86 cord_individual_obj[indivial_i,:] = [22. 8. 152. 160.]
87 cord_individual_obj[indivial_i,:] = [23. 6. 130. 136.]
88 cord_individual_obj[indivial_i,:] = [24. 9. 107. 116.]
89
90 min(cord_individual_obj[:,3]) = 62.0
91 historl_G_best_iter[iter, 3] = 62.0
92 Begin iteration:
93
94 iter = 2
95 cord_individual_obj[indivial_i,:] = [ 0. 7. 130. 137.]
96 cord_individual_obj[indivial_i,:] = [ 1. 8. 74. 82.]
97 cord_individual_obj[indivial_i,:] = [ 2. 7. 105. 112.]
98 cord_individual_obj[indivial_i,:] = [ 3. 6. 62. 68.]
99 cord_individual_obj[indivial_i,:] = [ 4. 7. 155. 162.]
100 cord_individual_obj[indivial_i,:] = [ 5. 7. 111. 118.]
101 cord_individual_obj[indivial_i,:] = [ 6. 6. 120. 126.]
102 cord_individual_obj[indivial_i,:] = [ 7. 8. 120. 128.]
103 cord_individual_obj[indivial_i,:] = [ 8. 8. 78. 86.]
104 cord_individual_obj[indivial_i,:] = [ 9. 8. 64. 72.]
105 cord_individual_obj[indivial_i,:] = [10. 6. 104. 110.]
106 cord_individual_obj[indivial_i,:] = [11. 9. 150. 159.]
107 cord_individual_obj[indivial_i,:] = [12. 8. 191. 199.]
108 cord_individual_obj[indivial_i,:] = [13. 7. 72. 79.]
109 cord_individual_obj[indivial_i,:] = [14. 8. 81. 89.]
110 cord_individual_obj[indivial_i,:] = [15. 7. 87. 94.]
111 cord_individual_obj[indivial_i,:] = [16. 5. 127. 132.]
112 cord_individual_obj[indivial_i,:] = [17. 6. 120. 126.]
113 cord_individual_obj[indivial_i,:] = [18. 8. 125. 133.]
114 cord_individual_obj[indivial_i,:] = [19. 9. 85. 94.]
115 cord_individual_obj[indivial_i,:] = [20. 8. 119. 127.]
116 cord_individual_obj[indivial_i,:] = [21. 8. 140. 148.]
117 cord_individual_obj[indivial_i,:] = [22. 6. 56. 62.]
118 cord_individual_obj[indivial_i,:] = [23. 7. 81. 88.]
119 cord_individual_obj[indivial_i,:] = [24. 8. 92. 100.]
120
121 min(cord_individual_obj[:,3]) = 62.0
122 historl_G_best_iter[iter, 3] = 62.0
123 Begin iteration:
124
125 iter = 3
126 cord_individual_obj[indivial_i,:] = [ 0. 7. 95. 102.]
127 cord_individual_obj[indivial_i,:] = [ 1. 8. 77. 85.]
128 cord_individual_obj[indivial_i,:] = [ 2. 8. 111. 119.]
129 cord_individual_obj[indivial_i,:] = [ 3. 5. 91. 96.]
130 cord_individual_obj[indivial_i,:] = [ 4. 7. 255. 262.]
131 cord_individual_obj[indivial_i,:] = [ 5. 8. 129. 137.]
132 cord_individual_obj[indivial_i,:] = [ 6. 6. 161. 167.]
133 cord_individual_obj[indivial_i,:] = [ 7. 8. 100. 108.]
134 cord_individual_obj[indivial_i,:] = [ 8. 6. 173. 179.]
135 cord_individual_obj[indivial_i,:] = [ 9. 8. 133. 141.]
136 cord_individual_obj[indivial_i,:] = [10. 7. 194. 201.]
137 cord_individual_obj[indivial_i,:] = [11. 9. 138. 147.]
138 cord_individual_obj[indivial_i,:] = [12. 6. 56. 62.]
139 cord_individual_obj[indivial_i,:] = [13. 9. 155. 164.]
140 cord_individual_obj[indivial_i,:] = [14. 7. 141. 148.]
141 cord_individual_obj[indivial_i,:] = [15. 7. 136. 143.]
142 cord_individual_obj[indivial_i,:] = [16. 7. 196. 203.]
143 cord_individual_obj[indivial_i,:] = [17. 7. 195. 202.]
144 cord_individual_obj[indivial_i,:] = [18. 9. 174. 183.]
145 cord_individual_obj[indivial_i,:] = [19. 9. 104. 113.]
146 cord_individual_obj[indivial_i,:] = [20. 8. 110. 118.]
147 cord_individual_obj[indivial_i,:] = [21. 10. 120. 130.]
148 cord_individual_obj[indivial_i,:] = [22. 7. 141. 148.]
149 cord_individual_obj[indivial_i,:] = [23. 7. 79. 86.]
150 cord_individual_obj[indivial_i,:] = [24. 7. 98. 105.]
151
152 min(cord_individual_obj[:,3]) = 62.0
153 historl_G_best_iter[iter, 3] = 62.0
154 Begin iteration:
155
156 iter = 4
157 cord_individual_obj[indivial_i,:] = [ 0. 7. 67. 74.]
158 cord_individual_obj[indivial_i,:] = [ 1. 7. 143. 150.]
159 cord_individual_obj[indivial_i,:] = [ 2. 7. 185. 192.]
160 cord_individual_obj[indivial_i,:] = [ 3. 8. 72. 80.]
161 cord_individual_obj[indivial_i,:] = [ 4. 6. 56. 62.]
162 cord_individual_obj[indivial_i,:] = [ 5. 6. 102. 108.]
163 cord_individual_obj[indivial_i,:] = [ 6. 7. 165. 172.]

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164 cord_individual_obj[indivial_i, :] = [ 7. 7. 110. 117.]
165 cord_individual_obj[indivial_i, :] = [ 8. 6. 197. 203.]
166 cord_individual_obj[indivial_i, :] = [ 9. 7. 70. 77.]
167 cord_individual_obj[indivial_i, :] = [10. 8. 123. 131.]
168 cord_individual_obj[indivial_i, :] = [11. 6. 65. 71.]
169 cord_individual_obj[indivial_i, :] = [12. 7. 141. 148.]
170 cord_individual_obj[indivial_i, :] = [13. 10. 156. 166.]
171 cord_individual_obj[indivial_i, :] = [14. 7. 96. 103.]
172 cord_individual_obj[indivial_i, :] = [15. 6. 66. 72.]
173 cord_individual_obj[indivial_i, :] = [16. 6. 104. 110.]
174 cord_individual_obj[indivial_i, :] = [17. 6. 65. 71.]
175 cord_individual_obj[indivial_i, :] = [18. 9. 103. 112.]
176 cord_individual_obj[indivial_i, :] = [19. 7. 115. 122.]
177 cord_individual_obj[indivial_i, :] = [20. 6. 71. 77.]
178 cord_individual_obj[indivial_i, :] = [21. 8. 129. 137.]
179 cord_individual_obj[indivial_i, :] = [22. 7. 85. 92.]
180 cord_individual_obj[indivial_i, :] = [23. 7. 138. 145.]
181 cord_individual_obj[indivial_i, :] = [24. 7. 91. 98.]
182
183 min(cord_individual_obj[:, 3]) = 62.0
184 historl_G_best_iter[iter, 3] = 62.0
185 Begin iteration:
186
187 iter = 5
188 cord_individual_obj[indivial_i, :] = [ 0. 6. 70. 76.]
189 cord_individual_obj[indivial_i, :] = [ 1. 9. 78. 87.]
190 cord_individual_obj[indivial_i, :] = [ 2. 8. 104. 112.]
191 cord_individual_obj[indivial_i, :] = [ 3. 7. 100. 107.]
192 cord_individual_obj[indivial_i, :] = [ 4. 8. 152. 160.]
193 cord_individual_obj[indivial_i, :] = [ 5. 7. 76. 83.]
194 cord_individual_obj[indivial_i, :] = [ 6. 8. 196. 204.]
195 cord_individual_obj[indivial_i, :] = [ 7. 7. 123. 130.]
196 cord_individual_obj[indivial_i, :] = [ 8. 6. 56. 62.]
197 cord_individual_obj[indivial_i, :] = [ 9. 8. 79. 87.]
198 cord_individual_obj[indivial_i, :] = [10. 7. 158. 165.]
199 cord_individual_obj[indivial_i, :] = [11. 8. 85. 93.]
200 cord_individual_obj[indivial_i, :] = [12. 7. 91. 98.]
201 cord_individual_obj[indivial_i, :] = [13. 7. 165. 172.]
202 cord_individual_obj[indivial_i, :] = [14. 8. 130. 138.]
203 cord_individual_obj[indivial_i, :] = [15. 8. 146. 154.]
204 cord_individual_obj[indivial_i, :] = [16. 7. 62. 69.]
205 cord_individual_obj[indivial_i, :] = [17. 6. 96. 102.]
206 cord_individual_obj[indivial_i, :] = [18. 9. 176. 185.]
207 cord_individual_obj[indivial_i, :] = [19. 7. 111. 118.]
208 cord_individual_obj[indivial_i, :] = [20. 6. 64. 70.]
209 cord_individual_obj[indivial_i, :] = [21. 7. 115. 122.]
210 cord_individual_obj[indivial_i, :] = [22. 7. 141. 148.]
211 cord_individual_obj[indivial_i, :] = [23. 6. 165. 171.]
212 cord_individual_obj[indivial_i, :] = [24. 7. 92. 99.]
213
214 min(cord_individual_obj[:, 3]) = 62.0
215 historl_G_best_iter[iter, 3] = 62.0
216 Begin iteration:
217
218 iter = 6
219 cord_individual_obj[indivial_i, :] = [ 0. 7. 166. 173.]
220 cord_individual_obj[indivial_i, :] = [ 1. 9. 57. 66.]
221 cord_individual_obj[indivial_i, :] = [ 2. 10. 85. 95.]
222 cord_individual_obj[indivial_i, :] = [ 3. 7. 133. 140.]
223 cord_individual_obj[indivial_i, :] = [ 4. 10. 98. 108.]
224 cord_individual_obj[indivial_i, :] = [ 5. 7. 109. 116.]
225 cord_individual_obj[indivial_i, :] = [ 6. 6. 56. 62.]
226 cord_individual_obj[indivial_i, :] = [ 7. 7. 75. 82.]
227 cord_individual_obj[indivial_i, :] = [ 8. 7. 220. 227.]
228 cord_individual_obj[indivial_i, :] = [ 9. 9. 97. 106.]
229 cord_individual_obj[indivial_i, :] = [10. 5. 149. 154.]
230 cord_individual_obj[indivial_i, :] = [11. 7. 131. 138.]
231 cord_individual_obj[indivial_i, :] = [12. 7. 167. 174.]
232 cord_individual_obj[indivial_i, :] = [13. 8. 124. 132.]
233 cord_individual_obj[indivial_i, :] = [14. 7. 101. 108.]
234 cord_individual_obj[indivial_i, :] = [15. 8. 74. 82.]
235 cord_individual_obj[indivial_i, :] = [16. 7. 126. 133.]
236 cord_individual_obj[indivial_i, :] = [17. 7. 119. 126.]
237 cord_individual_obj[indivial_i, :] = [18. 7. 125. 132.]
238 cord_individual_obj[indivial_i, :] = [19. 7. 84. 91.]
239 cord_individual_obj[indivial_i, :] = [20. 8. 86. 94.]
240 cord_individual_obj[indivial_i, :] = [21. 8. 86. 94.]
241 cord_individual_obj[indivial_i, :] = [22. 6. 121. 127.]
242 cord_individual_obj[indivial_i, :] = [23. 7. 89. 96.]
243 cord_individual_obj[indivial_i, :] = [24. 8. 120. 128.]
244
245 min(cord_individual_obj[:, 3]) = 62.0
246 historl_G_best_iter[iter, 3] = 62.0
247 Begin iteration:

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248
249 iter = 7
250 cord_individual_obj[indivial_i, :] = [ 0. 6. 127. 133.]
251 cord_individual_obj[indivial_i, :] = [ 1. 7. 113. 120.]
252 cord_individual_obj[indivial_i, :] = [ 2. 7. 168. 175.]
253 cord_individual_obj[indivial_i, :] = [ 3. 6. 114. 120.]
254 cord_individual_obj[indivial_i, :] = [ 4. 8. 54. 62.]
255 cord_individual_obj[indivial_i, :] = [ 5. 6. 115. 121.]
256 cord_individual_obj[indivial_i, :] = [ 6. 6. 118. 124.]
257 cord_individual_obj[indivial_i, :] = [ 7. 8. 105. 113.]
258 cord_individual_obj[indivial_i, :] = [ 8. 6. 56. 62.]
259 cord_individual_obj[indivial_i, :] = [ 9. 8. 65. 73.]
260 cord_individual_obj[indivial_i, :] = [ 10. 8. 190. 198.]
261 cord_individual_obj[indivial_i, :] = [ 11. 7. 123. 130.]
262 cord_individual_obj[indivial_i, :] = [ 12. 6. 72. 78.]
263 cord_individual_obj[indivial_i, :] = [ 13. 7. 88. 95.]
264 cord_individual_obj[indivial_i, :] = [ 14. 7. 107. 114.]
265 cord_individual_obj[indivial_i, :] = [ 15. 7. 97. 104.]
266 cord_individual_obj[indivial_i, :] = [ 16. 6. 121. 127.]
267 cord_individual_obj[indivial_i, :] = [ 17. 6. 64. 70.]
268 cord_individual_obj[indivial_i, :] = [ 18. 7. 76. 83.]
269 cord_individual_obj[indivial_i, :] = [ 19. 8. 116. 124.]
270 cord_individual_obj[indivial_i, :] = [ 20. 6. 53. 59.]
271 cord_individual_obj[indivial_i, :] = [ 21. 8. 89. 97.]
272 cord_individual_obj[indivial_i, :] = [ 22. 6. 108. 114.]
273 cord_individual_obj[indivial_i, :] = [ 23. 7. 119. 126.]
274 cord_individual_obj[indivial_i, :] = [ 24. 5. 150. 155.]
275

276 min(cord_individual_obj[:, 3]) = 59.0
277 historl_G_best_iter[iter, 3] = 59.0
278 Begin iteration:
279
280 iter = 8
281 cord_individual_obj[indivial_i, :] = [ 0. 6. 86. 92.]
282 cord_individual_obj[indivial_i, :] = [ 1. 7. 117. 124.]
283 cord_individual_obj[indivial_i, :] = [ 2. 6. 165. 171.]
284 cord_individual_obj[indivial_i, :] = [ 3. 8. 52. 60.]
285 cord_individual_obj[indivial_i, :] = [ 4. 9. 93. 102.]
286 cord_individual_obj[indivial_i, :] = [ 5. 6. 90. 96.]
287 cord_individual_obj[indivial_i, :] = [ 6. 6. 120. 126.]
288 cord_individual_obj[indivial_i, :] = [ 7. 7. 99. 106.]
289 cord_individual_obj[indivial_i, :] = [ 8. 6. 177. 183.]
290 cord_individual_obj[indivial_i, :] = [ 9. 8. 67. 75.]
291 cord_individual_obj[indivial_i, :] = [ 10. 6. 53. 59.]
292 cord_individual_obj[indivial_i, :] = [ 11. 6. 96. 102.]
293 cord_individual_obj[indivial_i, :] = [ 12. 8. 97. 105.]
294 cord_individual_obj[indivial_i, :] = [ 13. 8. 182. 190.]
295 cord_individual_obj[indivial_i, :] = [ 14. 7. 102. 109.]
296 cord_individual_obj[indivial_i, :] = [ 15. 7. 55. 62.]
297 cord_individual_obj[indivial_i, :] = [ 16. 7. 94. 101.]
298 cord_individual_obj[indivial_i, :] = [ 17. 8. 84. 92.]
299 cord_individual_obj[indivial_i, :] = [ 18. 7. 69. 76.]
300 cord_individual_obj[indivial_i, :] = [ 19. 8. 93. 101.]
301 cord_individual_obj[indivial_i, :] = [ 20. 8. 102. 110.]
302 cord_individual_obj[indivial_i, :] = [ 21. 6. 141. 147.]
303 cord_individual_obj[indivial_i, :] = [ 22. 7. 73. 80.]
304 cord_individual_obj[indivial_i, :] = [ 23. 6. 123. 129.]
305 cord_individual_obj[indivial_i, :] = [ 24. 7. 104. 111.]
306

307 min(cord_individual_obj[:, 3]) = 59.0
308 historl_G_best_iter[iter, 3] = 59.0
309 Begin iteration:
310
311 iter = 9
312 cord_individual_obj[indivial_i, :] = [ 0. 7. 104. 111.]
313 cord_individual_obj[indivial_i, :] = [ 1. 7. 110. 117.]
314 cord_individual_obj[indivial_i, :] = [ 2. 8. 123. 131.]
315 cord_individual_obj[indivial_i, :] = [ 3. 7. 180. 187.]
316 cord_individual_obj[indivial_i, :] = [ 4. 8. 97. 105.]
317 cord_individual_obj[indivial_i, :] = [ 5. 7. 139. 146.]
318 cord_individual_obj[indivial_i, :] = [ 6. 7. 187. 194.]
319 cord_individual_obj[indivial_i, :] = [ 7. 8. 162. 170.]
320 cord_individual_obj[indivial_i, :] = [ 8. 7. 147. 154.]
321 cord_individual_obj[indivial_i, :] = [ 9. 9. 83. 92.]
322 cord_individual_obj[indivial_i, :] = [ 10. 7. 144. 151.]
323 cord_individual_obj[indivial_i, :] = [ 11. 7. 96. 103.]
324 cord_individual_obj[indivial_i, :] = [ 12. 7. 146. 153.]
325 cord_individual_obj[indivial_i, :] = [ 13. 6. 53. 59.]
326 cord_individual_obj[indivial_i, :] = [ 14. 8. 142. 150.]
327 cord_individual_obj[indivial_i, :] = [ 15. 9. 145. 154.]
328 cord_individual_obj[indivial_i, :] = [ 16. 7. 176. 183.]
329 cord_individual_obj[indivial_i, :] = [ 17. 8. 160. 168.]
330 cord_individual_obj[indivial_i, :] = [ 18. 8. 125. 133.]
331 cord_individual_obj[indivial_i, :] = [ 19. 9. 74. 83.]

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332 cord_individual_obj[indivial_i,:] = [20. 7. 54. 61.]
333 cord_individual_obj[indivial_i,:] = [21. 11. 87. 98.]
334 cord_individual_obj[indivial_i,:] = [22. 7. 92. 99.]
335 cord_individual_obj[indivial_i,:] = [23. 7. 168. 175.]
336 cord_individual_obj[indivial_i,:] = [24. 7. 94. 101.]
337
338 min(cord_individual_obj[:,3]) = 59.0
339 histol_G_best_iter[iter,3] = 59.0
340 Begin iteration:
341
342 iter = 10
343 cord_individual_obj[indivial_i,:] = [ 0. 8. 132. 140.]
344 cord_individual_obj[indivial_i,:] = [ 1. 9. 102. 111.]
345 cord_individual_obj[indivial_i,:] = [ 2. 8. 168. 176.]
346 cord_individual_obj[indivial_i,:] = [ 3. 9. 106. 115.]
347 cord_individual_obj[indivial_i,:] = [ 4. 9. 76. 85.]
348 cord_individual_obj[indivial_i,:] = [ 5. 8. 91. 99.]
349 cord_individual_obj[indivial_i,:] = [ 6. 6. 53. 59.]
350 cord_individual_obj[indivial_i,:] = [ 7. 8. 100. 108.]
351 cord_individual_obj[indivial_i,:] = [ 8. 10. 136. 146.]
352 cord_individual_obj[indivial_i,:] = [ 9. 8. 142. 150.]
353 cord_individual_obj[indivial_i,:] = [10. 8. 104. 112.]
354 cord_individual_obj[indivial_i,:] = [11. 8. 121. 129.]
355 cord_individual_obj[indivial_i,:] = [12. 7. 154. 161.]
356 cord_individual_obj[indivial_i,:] = [13. 11. 92. 103.]
357 cord_individual_obj[indivial_i,:] = [14. 7. 107. 114.]
358 cord_individual_obj[indivial_i,:] = [15. 9. 106. 115.]
359 cord_individual_obj[indivial_i,:] = [16. 7. 113. 120.]
360 cord_individual_obj[indivial_i,:] = [17. 7. 126. 133.]
361 cord_individual_obj[indivial_i,:] = [18. 6. 83. 89.]
362 cord_individual_obj[indivial_i,:] = [19. 8. 101. 109.]
363 cord_individual_obj[indivial_i,:] = [20. 7. 68. 75.]
364 cord_individual_obj[indivial_i,:] = [21. 7. 88. 95.]
365 cord_individual_obj[indivial_i,:] = [22. 9. 154. 163.]
366 cord_individual_obj[indivial_i,:] = [23. 7. 144. 151.]
367 cord_individual_obj[indivial_i,:] = [24. 6. 67. 73.]
368
369 min(cord_individual_obj[:,3]) = 59.0
370 histol_G_best_iter[iter,3] = 59.0
371 Begin iteration:
372
373 iter = 11
374 cord_individual_obj[indivial_i,:] = [ 0. 8. 146. 154.]
375 cord_individual_obj[indivial_i,:] = [ 1. 6. 72. 78.]
376 cord_individual_obj[indivial_i,:] = [ 2. 6. 53. 59.]
377 cord_individual_obj[indivial_i,:] = [ 3. 7. 108. 115.]
378 cord_individual_obj[indivial_i,:] = [ 4. 8. 144. 152.]
379 cord_individual_obj[indivial_i,:] = [ 5. 7. 115. 122.]
380 cord_individual_obj[indivial_i,:] = [ 6. 7. 178. 185.]
381 cord_individual_obj[indivial_i,:] = [ 7. 9. 146. 155.]
382 cord_individual_obj[indivial_i,:] = [ 8. 8. 91. 99.]
383 cord_individual_obj[indivial_i,:] = [ 9. 9. 139. 148.]
384 cord_individual_obj[indivial_i,:] = [10. 9. 150. 159.]
385 cord_individual_obj[indivial_i,:] = [11. 7. 111. 118.]
386 cord_individual_obj[indivial_i,:] = [12. 8. 118. 126.]
387 cord_individual_obj[indivial_i,:] = [13. 9. 132. 141.]
388 cord_individual_obj[indivial_i,:] = [14. 6. 175. 181.]
389 cord_individual_obj[indivial_i,:] = [15. 6. 88. 94.]
390 cord_individual_obj[indivial_i,:] = [16. 8. 112. 120.]
391 cord_individual_obj[indivial_i,:] = [17. 6. 137. 143.]
392 cord_individual_obj[indivial_i,:] = [18. 9. 107. 116.]
393 cord_individual_obj[indivial_i,:] = [19. 11. 121. 132.]
394 cord_individual_obj[indivial_i,:] = [20. 6. 87. 93.]
395 cord_individual_obj[indivial_i,:] = [21. 7. 96. 103.]
396 cord_individual_obj[indivial_i,:] = [22. 7. 110. 117.]
397 cord_individual_obj[indivial_i,:] = [23. 8. 154. 162.]
398 cord_individual_obj[indivial_i,:] = [24. 7. 89. 96.]
399
400 min(cord_individual_obj[:,3]) = 59.0
401 histol_G_best_iter[iter,3] = 59.0
402 Begin iteration:
403
404 iter = 12
405 cord_individual_obj[indivial_i,:] = [ 0. 9. 129. 138.]
406 cord_individual_obj[indivial_i,:] = [ 1. 8. 111. 119.]
407 cord_individual_obj[indivial_i,:] = [ 2. 8. 132. 140.]
408 cord_individual_obj[indivial_i,:] = [ 3. 7. 93. 100.]
409 cord_individual_obj[indivial_i,:] = [ 4. 8. 104. 112.]
410 cord_individual_obj[indivial_i,:] = [ 5. 7. 119. 126.]
411 cord_individual_obj[indivial_i,:] = [ 6. 6. 53. 59.]
412 cord_individual_obj[indivial_i,:] = [ 7. 8. 123. 131.]
413 cord_individual_obj[indivial_i,:] = [ 8. 9. 114. 123.]
414 cord_individual_obj[indivial_i,:] = [ 9. 9. 142. 151.]
415 cord_individual_obj[indivial_i,:] = [10. 6. 102. 108.]

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416 cord_individual_obj[indivial_i,:] = [ 11. 9. 134. 143.]
417 cord_individual_obj[indivial_i,:] = [12. 6. 79. 85.]
418 cord_individual_obj[indivial_i,:] = [ 13. 8. 145. 153.]
419 cord_individual_obj[indivial_i,:] = [ 14. 6. 184. 190.]
420 cord_individual_obj[indivial_i,:] = [ 15. 7. 116. 123.]
421 cord_individual_obj[indivial_i,:] = [ 16. 7. 114. 121.]
422 cord_individual_obj[indivial_i,:] = [ 17. 7. 120. 127.]
423 cord_individual_obj[indivial_i,:] = [ 18. 9. 122. 131.]
424 cord_individual_obj[indivial_i,:] = [ 19. 9. 108. 117.]
425 cord_individual_obj[indivial_i,:] = [20. 8. 64. 72.]
426 cord_individual_obj[indivial_i,:] = [21. 8. 88. 96.]
427 cord_individual_obj[indivial_i,:] = [ 22. 9. 148. 157.]
428 cord_individual_obj[indivial_i,:] = [ 23. 6. 128. 134.]
429 cord_individual_obj[indivial_i,:] = [ 24. 7. 113. 120.]
430
431 min(cord_individual_obj[:,3]) = 59.0
432 histol_G_best_iter[iter,3] = 59.0
433 Begin iteration:
434
435 iter = 13
436 cord_individual_obj[indivial_i,:] = [ 0. 9. 97. 106.]
437 cord_individual_obj[indivial_i,:] = [ 1. 7. 108. 115.]
438 cord_individual_obj[indivial_i,:] = [ 2. 7. 88. 95.]
439 cord_individual_obj[indivial_i,:] = [ 3. 6. 154. 160.]
440 cord_individual_obj[indivial_i,:] = [ 4. 6. 133. 139.]
441 cord_individual_obj[indivial_i,:] = [ 5. 7. 93. 100.]
442 cord_individual_obj[indivial_i,:] = [ 6. 7. 178. 185.]
443 cord_individual_obj[indivial_i,:] = [ 7. 7. 139. 146.]
444 cord_individual_obj[indivial_i,:] = [ 8. 8. 142. 150.]
445 cord_individual_obj[indivial_i,:] = [ 9. 9. 88. 97.]
446 cord_individual_obj[indivial_i,:] = [10. 7. 109. 116.]
447 cord_individual_obj[indivial_i,:] = [11. 9. 108. 117.]
448 cord_individual_obj[indivial_i,:] = [12. 8. 129. 137.]
449 cord_individual_obj[indivial_i,:] = [13. 7. 84. 91.]
450 cord_individual_obj[indivial_i,:] = [14. 6. 53. 59.]
451 cord_individual_obj[indivial_i,:] = [15. 6. 76. 82.]
452 cord_individual_obj[indivial_i,:] = [16. 5. 118. 123.]
453 cord_individual_obj[indivial_i,:] = [17. 7. 94. 101.]
454 cord_individual_obj[indivial_i,:] = [18. 6. 171. 177.]
455 cord_individual_obj[indivial_i,:] = [19. 8. 109. 117.]
456 cord_individual_obj[indivial_i,:] = [20. 9. 65. 74.]
457 cord_individual_obj[indivial_i,:] = [21. 6. 110. 116.]
458 cord_individual_obj[indivial_i,:] = [22. 8. 116. 124.]
459 cord_individual_obj[indivial_i,:] = [23. 8. 137. 145.]
460 cord_individual_obj[indivial_i,:] = [24. 8. 99. 107.]
461
462 min(cord_individual_obj[:,3]) = 59.0
463 histol_G_best_iter[iter,3] = 59.0
464 Begin iteration:
465
466 iter = 14
467 cord_individual_obj[indivial_i,:] = [ 0. 8. 165. 173.]
468 cord_individual_obj[indivial_i,:] = [ 1. 7. 73. 80.]
469 cord_individual_obj[indivial_i,:] = [ 2. 8. 116. 124.]
470 cord_individual_obj[indivial_i,:] = [ 3. 10. 75. 85.]
471 cord_individual_obj[indivial_i,:] = [ 4. 9. 154. 163.]
472 cord_individual_obj[indivial_i,:] = [ 5. 6. 100. 106.]
473 cord_individual_obj[indivial_i,:] = [ 6. 6. 53. 59.]
474 cord_individual_obj[indivial_i,:] = [ 7. 7. 111. 118.]
475 cord_individual_obj[indivial_i,:] = [ 8. 7. 104. 111.]
476 cord_individual_obj[indivial_i,:] = [ 9. 7. 142. 149.]
477 cord_individual_obj[indivial_i,:] = [10. 6. 89. 95.]
478 cord_individual_obj[indivial_i,:] = [11. 6. 149. 155.]
479 cord_individual_obj[indivial_i,:] = [12. 7. 108. 115.]
480 cord_individual_obj[indivial_i,:] = [13. 10. 126. 136.]
481 cord_individual_obj[indivial_i,:] = [14. 7. 146. 153.]
482 cord_individual_obj[indivial_i,:] = [15. 8. 93. 101.]
483 cord_individual_obj[indivial_i,:] = [16. 8. 77. 85.]
484 cord_individual_obj[indivial_i,:] = [17. 7. 126. 133.]
485 cord_individual_obj[indivial_i,:] = [18. 8. 134. 142.]
486 cord_individual_obj[indivial_i,:] = [19. 8. 110. 118.]
487 cord_individual_obj[indivial_i,:] = [20. 9. 75. 84.]
488 cord_individual_obj[indivial_i,:] = [21. 8. 125. 133.]
489 cord_individual_obj[indivial_i,:] = [22. 8. 96. 104.]
490 cord_individual_obj[indivial_i,:] = [23. 7. 146. 153.]
491 cord_individual_obj[indivial_i,:] = [24. 7. 89. 96.]
492
493 min(cord_individual_obj[:,3]) = 59.0
494 histol_G_best_iter[iter,3] = 59.0
495 Begin iteration:
496
497 iter = 15
498 cord_individual_obj[indivial_i,:] = [ 0. 6. 53. 59.]
499 cord_individual_obj[indivial_i,:] = [ 1. 7. 86. 93.]

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500 cord_individual_obj[indivial_i,:] = [ 2. 6. 136. 142.]
501 cord_individual_obj[indivial_i,:] = [ 3. 6. 153. 159.]
502 cord_individual_obj[indivial_i,:] = [ 4. 8. 105. 113.]
503 cord_individual_obj[indivial_i,:] = [ 5. 7. 131. 138.]
504 cord_individual_obj[indivial_i,:] = [ 6. 7. 178. 185.]
505 cord_individual_obj[indivial_i,:] = [ 7. 9. 155. 164.]
506 cord_individual_obj[indivial_i,:] = [ 8. 7. 83. 90.]
507 cord_individual_obj[indivial_i,:] = [ 9. 8. 114. 122.]
508 cord_individual_obj[indivial_i,:] = [ 10. 8. 131. 139.]
509 cord_individual_obj[indivial_i,:] = [ 11. 10. 86. 96.]
510 cord_individual_obj[indivial_i,:] = [ 12. 8. 137. 145.]
511 cord_individual_obj[indivial_i,:] = [ 13. 7. 140. 147.]
512 cord_individual_obj[indivial_i,:] = [ 14. 7. 146. 153.]
513 cord_individual_obj[indivial_i,:] = [ 15. 8. 92. 100.]
514 cord_individual_obj[indivial_i,:] = [ 16. 9. 97. 106.]
515 cord_individual_obj[indivial_i,:] = [ 17. 8. 105. 113.]
516 cord_individual_obj[indivial_i,:] = [ 18. 9. 111. 120.]
517 cord_individual_obj[indivial_i,:] = [ 19. 7. 102. 109.]
518 cord_individual_obj[indivial_i,:] = [ 20. 8. 96. 104.]
519 cord_individual_obj[indivial_i,:] = [ 21. 8. 107. 115.]
520 cord_individual_obj[indivial_i,:] = [ 22. 9. 74. 83.]
521 cord_individual_obj[indivial_i,:] = [ 23. 7. 135. 142.]
522 cord_individual_obj[indivial_i,:] = [ 24. 9. 92. 101.]
523
524 min(cord_individual_obj[:, 3]) = 59.0
525 histol_G_best_iter[iter, 3] = 59.0
526 Begin iteration:
527
528 iter = 16
529 cord_individual_obj[indivial_i,:] = [ 0. 7. 109. 116.]
530 cord_individual_obj[indivial_i,:] = [ 1. 7. 67. 74.]
531 cord_individual_obj[indivial_i,:] = [ 2. 8. 131. 139.]
532 cord_individual_obj[indivial_i,:] = [ 3. 7. 117. 124.]
533 cord_individual_obj[indivial_i,:] = [ 4. 8. 124. 132.]
534 cord_individual_obj[indivial_i,:] = [ 5. 8. 115. 123.]
535 cord_individual_obj[indivial_i,:] = [ 6. 6. 53. 59.]
536 cord_individual_obj[indivial_i,:] = [ 7. 8. 160. 168.]
537 cord_individual_obj[indivial_i,:] = [ 8. 7. 74. 81.]
538 cord_individual_obj[indivial_i,:] = [ 9. 9. 176. 185.]
539 cord_individual_obj[indivial_i,:] = [ 10. 7. 147. 154.]
540 cord_individual_obj[indivial_i,:] = [ 11. 7. 101. 108.]
541 cord_individual_obj[indivial_i,:] = [ 12. 9. 132. 141.]
542 cord_individual_obj[indivial_i,:] = [ 13. 9. 123. 132.]
543 cord_individual_obj[indivial_i,:] = [ 14. 7. 146. 153.]
544 cord_individual_obj[indivial_i,:] = [ 15. 8. 99. 107.]
545 cord_individual_obj[indivial_i,:] = [ 16. 6. 85. 91.]
546 cord_individual_obj[indivial_i,:] = [ 17. 6. 123. 129.]
547 cord_individual_obj[indivial_i,:] = [ 18. 7. 102. 109.]
548 cord_individual_obj[indivial_i,:] = [ 19. 7. 116. 123.]
549 cord_individual_obj[indivial_i,:] = [ 20. 7. 96. 103.]
550 cord_individual_obj[indivial_i,:] = [ 21. 9. 111. 120.]
551 cord_individual_obj[indivial_i,:] = [ 22. 8. 83. 91.]
552 cord_individual_obj[indivial_i,:] = [ 23. 8. 134. 142.]
553 cord_individual_obj[indivial_i,:] = [ 24. 6. 87. 93.]
554
555 min(cord_individual_obj[:, 3]) = 59.0
556 histol_G_best_iter[iter, 3] = 59.0
557 Begin iteration:
558
559 iter = 17
560 cord_individual_obj[indivial_i,:] = [ 0. 7. 107. 114.]
561 cord_individual_obj[indivial_i,:] = [ 1. 8. 128. 136.]
562 cord_individual_obj[indivial_i,:] = [ 2. 9. 84. 93.]
563 cord_individual_obj[indivial_i,:] = [ 3. 7. 141. 148.]
564 cord_individual_obj[indivial_i,:] = [ 4. 6. 113. 119.]
565 cord_individual_obj[indivial_i,:] = [ 5. 6. 88. 94.]
566 cord_individual_obj[indivial_i,:] = [ 6. 7. 178. 185.]
567 cord_individual_obj[indivial_i,:] = [ 7. 8. 193. 201.]
568 cord_individual_obj[indivial_i,:] = [ 8. 7. 85. 92.]
569 cord_individual_obj[indivial_i,:] = [ 9. 6. 53. 59.]
570 cord_individual_obj[indivial_i,:] = [ 10. 7. 145. 152.]
571 cord_individual_obj[indivial_i,:] = [ 11. 6. 83. 89.]
572 cord_individual_obj[indivial_i,:] = [ 12. 7. 217. 224.]
573 cord_individual_obj[indivial_i,:] = [ 13. 9. 103. 112.]
574 cord_individual_obj[indivial_i,:] = [ 14. 7. 130. 137.]
575 cord_individual_obj[indivial_i,:] = [ 15. 7. 83. 90.]
576 cord_individual_obj[indivial_i,:] = [ 16. 9. 85. 94.]
577 cord_individual_obj[indivial_i,:] = [ 17. 8. 107. 115.]
578 cord_individual_obj[indivial_i,:] = [ 18. 8. 107. 115.]
579 cord_individual_obj[indivial_i,:] = [ 19. 8. 148. 156.]
580 cord_individual_obj[indivial_i,:] = [ 20. 9. 132. 141.]
581 cord_individual_obj[indivial_i,:] = [ 21. 7. 107. 114.]
582 cord_individual_obj[indivial_i,:] = [ 22. 8. 165. 173.]
583 cord_individual_obj[indivial_i,:] = [ 23. 7. 151. 158.]

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584     cord_individual_obj[indivial_i, :] = [ 24.  8. 143. 151.]
585
586     min(cord_individual_obj[:, 3]) = 59.0
587     historl_G_best_iter[iter, 3] = 59.0
588 Begin iteration:
589
590 iter = 18
591     cord_individual_obj[indivial_i, :] = [ 0.  7. 111. 118.]
592     cord_individual_obj[indivial_i, :] = [ 1.  7. 70. 77.]
593     cord_individual_obj[indivial_i, :] = [ 2.  8. 156. 164.]
594     cord_individual_obj[indivial_i, :] = [ 3.  7. 161. 168.]
595     cord_individual_obj[indivial_i, :] = [ 4.  8. 124. 132.]
596     cord_individual_obj[indivial_i, :] = [ 5.  9. 133. 142.]
597     cord_individual_obj[indivial_i, :] = [ 6.  6. 137. 143.]
598     cord_individual_obj[indivial_i, :] = [ 7.  6. 186. 192.]
599     cord_individual_obj[indivial_i, :] = [ 8.  6. 74. 80.]
600     cord_individual_obj[indivial_i, :] = [ 9.  9. 176. 185.]
601     cord_individual_obj[indivial_i, :] = [10. 6. 91. 97.]
602     cord_individual_obj[indivial_i, :] = [11. 6. 70. 76.]
603     cord_individual_obj[indivial_i, :] = [12. 6. 53. 59.]
604     cord_individual_obj[indivial_i, :] = [13. 9. 113. 122.]
605     cord_individual_obj[indivial_i, :] = [14. 7. 148. 155.]
606     cord_individual_obj[indivial_i, :] = [15. 9. 122. 131.]
607     cord_individual_obj[indivial_i, :] = [16. 8. 94. 102.]
608     cord_individual_obj[indivial_i, :] = [17. 6. 93. 99.]
609     cord_individual_obj[indivial_i, :] = [18. 8. 108. 116.]
610     cord_individual_obj[indivial_i, :] = [19. 7. 109. 116.]
611     cord_individual_obj[indivial_i, :] = [20. 9. 109. 118.]
612     cord_individual_obj[indivial_i, :] = [21. 8. 110. 118.]
613     cord_individual_obj[indivial_i, :] = [22. 8. 83. 91.]
614     cord_individual_obj[indivial_i, :] = [23. 7. 179. 186.]
615     cord_individual_obj[indivial_i, :] = [24. 6. 87. 93.]
616
617     min(cord_individual_obj[:, 3]) = 59.0
618     historl_G_best_iter[iter, 3] = 59.0
619 Begin iteration:
620
621 iter = 19
622     cord_individual_obj[indivial_i, :] = [ 0.  8. 64. 72.]
623     cord_individual_obj[indivial_i, :] = [ 1.  7. 105. 112.]
624     cord_individual_obj[indivial_i, :] = [ 2.  7. 138. 145.]
625     cord_individual_obj[indivial_i, :] = [ 3.  7. 102. 109.]
626     cord_individual_obj[indivial_i, :] = [ 4.  7. 92. 99.]
627     cord_individual_obj[indivial_i, :] = [ 5.  6. 139. 145.]
628     cord_individual_obj[indivial_i, :] = [ 6.  6. 125. 131.]
629     cord_individual_obj[indivial_i, :] = [ 7.  6. 53. 59.]
630     cord_individual_obj[indivial_i, :] = [ 8.  8. 120. 128.]
631     cord_individual_obj[indivial_i, :] = [ 9.  8. 144. 152.]
632     cord_individual_obj[indivial_i, :] = [10. 7. 63. 70.]
633     cord_individual_obj[indivial_i, :] = [11. 7. 87. 94.]
634     cord_individual_obj[indivial_i, :] = [12. 8. 148. 156.]
635     cord_individual_obj[indivial_i, :] = [13. 8. 89. 97.]
636     cord_individual_obj[indivial_i, :] = [14. 7. 164. 171.]
637     cord_individual_obj[indivial_i, :] = [15. 7. 85. 92.]
638     cord_individual_obj[indivial_i, :] = [16. 5. 95. 100.]
639     cord_individual_obj[indivial_i, :] = [17. 8. 129. 137.]
640     cord_individual_obj[indivial_i, :] = [18. 7. 64. 71.]
641     cord_individual_obj[indivial_i, :] = [19. 8. 110. 118.]
642     cord_individual_obj[indivial_i, :] = [20. 8. 151. 159.]
643     cord_individual_obj[indivial_i, :] = [21. 6. 80. 86.]
644     cord_individual_obj[indivial_i, :] = [22. 7. 100. 107.]
645     cord_individual_obj[indivial_i, :] = [23. 6. 135. 141.]
646     cord_individual_obj[indivial_i, :] = [24. 7. 86. 93.]
647
648     min(cord_individual_obj[:, 3]) = 59.0
649     historl_G_best_iter[iter, 3] = 59.0
650 Begin iteration:
651
652 iter = 20
653     cord_individual_obj[indivial_i, :] = [ 0.  7. 60. 67.]
654     cord_individual_obj[indivial_i, :] = [ 1.  8. 152. 160.]
655     cord_individual_obj[indivial_i, :] = [ 2.  7. 148. 155.]
656     cord_individual_obj[indivial_i, :] = [ 3.  8. 127. 135.]
657     cord_individual_obj[indivial_i, :] = [ 4.  8. 135. 143.]
658     cord_individual_obj[indivial_i, :] = [ 5.  7. 93. 100.]
659     cord_individual_obj[indivial_i, :] = [ 6.  7. 151. 158.]
660     cord_individual_obj[indivial_i, :] = [ 7.  8. 191. 199.]
661     cord_individual_obj[indivial_i, :] = [ 8.  7. 97. 104.]
662     cord_individual_obj[indivial_i, :] = [ 9.  8. 58. 66.]
663     cord_individual_obj[indivial_i, :] = [10. 6. 81. 87.]
664     cord_individual_obj[indivial_i, :] = [11. 7. 134. 141.]
665     cord_individual_obj[indivial_i, :] = [12. 5. 173. 178.]
666     cord_individual_obj[indivial_i, :] = [13. 9. 74. 83.]
667     cord_individual_obj[indivial_i, :] = [14. 6. 53. 59.]

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668 cord_individual_obj[indivial_i,:] = [15. 7. 61. 68.]
669 cord_individual_obj[indivial_i,:] = [16. 8. 96. 104.]
670 cord_individual_obj[indivial_i,:] = [17. 7. 136. 143.]
671 cord_individual_obj[indivial_i,:] = [18. 8. 166. 174.]
672 cord_individual_obj[indivial_i,:] = [19. 7. 145. 152.]
673 cord_individual_obj[indivial_i,:] = [20. 7. 89. 96.]
674 cord_individual_obj[indivial_i,:] = [21. 8. 102. 110.]
675 cord_individual_obj[indivial_i,:] = [22. 8. 81. 89.]
676 cord_individual_obj[indivial_i,:] = [23. 7. 104. 111.]
677 cord_individual_obj[indivial_i,:] = [24. 7. 138. 145.]
678
679 min(cord_individual_obj[:,3]) = 59.0
680 historl_G_best_iter[iter,3] = 59.0
681 Iteration calculate over
682
683
684
685
686 All item are in Bin and:
687 Bin area = 1080
688 Real_area = 173.0
689 Proportion_of_area = 0.16018518518518518
690 BEST_CHROM =
691 berth: [23. 24.5 3.5 10. 4.5 16. 10.5 5. 16.5 1.5 21.5 9.5 4.5]
692 time: [0. 2. 5. 0. 1. 2. 5. 0. 0. 4. 2. 4.]
693 num_QC: [4. 4. 4. 4. 3. 5. 3. 3. 2. 3. 5. 3.]
694 Objective function values and some other indicators:
695 Obj0 = 6.00          Obj1 = 53.00          Obj0 + Obj1 = 59.00
696 Total movement of crane: 8.00
697 Total waiting time in berth position: 25.00
698 Total index of q during berthing: 689.00
699 Specific arrangement for each vessel:
700 V_id: 0           li: 6.0           xi: 23.0           bow of i: 20.0           tail of i: 26.0           gama_i0: 0.0           gama_i1: 1
701 .0             gama_i1 + 1: 2.0       gama_i1 - gama_i0: 1.0           duration_time_i: 2.0           demand_i: 100.0           work
702 load_i: 100.0   work load gap_i: 0
703 V_id: 1           li: 9.0           xi: 24.5           bow of i: 20.0           tail of i: 29.0           gama_i0: 2.0           gama_i1: 3
704 .0             gama_i1 + 1: 4.0       gama_i1 - gama_i0: 1.0           duration_time_i: 2.0           demand_i: 120.0           work
705 load_i: 120.0   work load gap_i: 0
706 V_id: 2           li: 7.0           xi: 3.5           bow of i: 0.0           tail of i: 7.0           gama_i0: 5.0           gama_i1: 6.0
707 .0             gama_i1 + 1: 7.0       gama_i1 - gama_i0: 1.0           duration_time_i: 2.0           demand_i: 120.0           work load_i:
708 120.0           work load gap_i: 0
709 V_id: 3           li: 6.0           xi: 10.0           bow of i: 7.0           tail of i: 13.0           gama_i0: 0.0           gama_i1: 1
710 .0             gama_i1 + 1: 2.0       gama_i1 - gama_i0: 1.0           duration_time_i: 2.0           demand_i: 100.0           work
711 load_i: 100.0   work load gap_i: 0
712 V_id: 4           li: 3.0           xi: 4.5           bow of i: 3.0           tail of i: 6.0           gama_i0: 1.0           gama_i1: 3.0
713 .0             gama_i1 + 1: 4.0       gama_i1 - gama_i0: 2.0           duration_time_i: 3.0           demand_i: 160.0           work load_i:
714 160.0           work load gap_i: 0
715 V_id: 5           li: 6.0           xi: 16.0           bow of i: 13.0           tail of i: 19.0           gama_i0: 2.0           gama_i1: 4
716 .0             gama_i1 + 1: 5.0       gama_i1 - gama_i0: 2.0           duration_time_i: 3.0           demand_i: 140.0           work
717 load_i: 140.0   work load gap_i: 0
718 V_id: 6           li: 7.0           xi: 10.5           bow of i: 7.0           tail of i: 14.0           gama_i0: 5.0           gama_i1: 6
719 .0             gama_i1 + 1: 7.0       gama_i1 - gama_i0: 1.0           duration_time_i: 2.0           demand_i: 140.0           work
720 load_i: 140.0   work load gap_i: 0
721 V_id: 7           li: 4.0           xi: 5.0           bow of i: 3.0           tail of i: 7.0           gama_i0: 0.0           gama_i1: 0
722 .0             gama_i1 + 1: 1.0       gama_i1 - gama_i0: 0.0           duration_time_i: 1.0           demand_i: 60.0           work load_i:
723 60.0           work load gap_i: 0
724 V_id: 8           li: 7.0           xi: 16.5           bow of i: 13.0           tail of i: 20.0           gama_i0: 0.0           gama_i1: 1
725 .0             gama_i1 + 1: 2.0       gama_i1 - gama_i0: 1.0           duration_time_i: 2.0           demand_i: 100.0           work
726 load_i: 100.0   work load gap_i: 0
727 V_id: 9           li: 3.0           xi: 1.5           bow of i: 0.0           tail of i: 3.0           gama_i0: 0.0           gama_i1: 3
728 .0             gama_i1 + 1: 4.0       gama_i1 - gama_i0: 3.0           duration_time_i: 4.0           demand_i: 160.0           work load_i:
729 160.0           work load gap_i: 0
730 V_id: 10          li: 5.0           xi: 21.5           bow of i: 19.0           tail of i: 24.0           gama_i0: 4.0           gama_i1: 1
731 : 5.0            gama_i1 + 1: 6.0       gama_i1 - gama_i0: 1.0           duration_time_i: 2.0           demand_i: 80.0           work
732 load_i: 80.0   work load gap_i: 0
733 V_id: 11          li: 7.0           xi: 9.5           bow of i: 6.0           tail of i: 13.0           gama_i0: 2.0           gama_i1: 3
734 .0             gama_i1 + 1: 4.0       gama_i1 - gama_i0: 1.0           duration_time_i: 2.0           demand_i: 160.0           work
735 load_i: 160.0   work load gap_i: 0
736 V_id: 12          li: 9.0           xi: 4.5           bow of i: 0.0           tail of i: 9.0           gama_i0: 4.0           gama_i1: 4
737 .0             gama_i1 + 1: 5.0       gama_i1 - gama_i0: 0.0           duration_time_i: 1.0           demand_i: 60.0           work load_i:
738 60.0           work load gap_i: 0
739
740 Algorithm finished and the total CPU time: 345 s
741 End
742

```