

unknown

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80 cord_individual_obj[indivial_i,:] = [16. 6. 47. 53.]
81 cord_individual_obj[indivial_i,:] = [17. 8. 83. 91.]
82 cord_individual_obj[indivial_i,:] = [18. 7. 90. 97.]
83 cord_individual_obj[indivial_i,:] = [19. 9. 86. 95.]
84 cord_individual_obj[indivial_i,:] = [20. 8. 94. 102.]
85 cord_individual_obj[indivial_i,:] = [21. 6. 90. 96.]
86 cord_individual_obj[indivial_i,:] = [22. 8. 134. 142.]
87 cord_individual_obj[indivial_i,:] = [23. 7. 139. 146.]
88 cord_individual_obj[indivial_i,:] = [24. 7. 104. 111.]
89
90 min(cord_individual_obj[:,3]) = 53.0
91 historl_G_best_iter[iter,3] = 53.0
92 Begin iteration:
93
94 iter = 2
95 cord_individual_obj[indivial_i,:] = [ 0. 10. 120. 130.]
96 cord_individual_obj[indivial_i,:] = [ 1. 8. 69. 77.]
97 cord_individual_obj[indivial_i,:] = [ 2. 7. 79. 86.]
98 cord_individual_obj[indivial_i,:] = [ 3. 8. 89. 97.]
99 cord_individual_obj[indivial_i,:] = [ 4. 7. 65. 72.]
100 cord_individual_obj[indivial_i,:] = [ 5. 8. 68. 76.]
101 cord_individual_obj[indivial_i,:] = [ 6. 7. 77. 84.]
102 cord_individual_obj[indivial_i,:] = [ 7. 6. 47. 53.]
103 cord_individual_obj[indivial_i,:] = [ 8. 8. 148. 156.]
104 cord_individual_obj[indivial_i,:] = [ 9. 9. 130. 139.]
105 cord_individual_obj[indivial_i,:] = [ 10. 7. 176. 183.]
106 cord_individual_obj[indivial_i,:] = [ 11. 8. 93. 101.]
107 cord_individual_obj[indivial_i,:] = [ 12. 7. 109. 116.]
108 cord_individual_obj[indivial_i,:] = [ 13. 8. 107. 115.]
109 cord_individual_obj[indivial_i,:] = [ 14. 7. 108. 115.]
110 cord_individual_obj[indivial_i,:] = [ 15. 9. 106. 115.]
111 cord_individual_obj[indivial_i,:] = [ 16. 6. 108. 114.]
112 cord_individual_obj[indivial_i,:] = [ 17. 6. 128. 134.]
113 cord_individual_obj[indivial_i,:] = [ 18. 6. 107. 113.]
114 cord_individual_obj[indivial_i,:] = [ 19. 8. 114. 122.]
115 cord_individual_obj[indivial_i,:] = [ 20. 7. 103. 110.]
116 cord_individual_obj[indivial_i,:] = [ 21. 6. 130. 136.]
117 cord_individual_obj[indivial_i,:] = [ 22. 9. 204. 213.]
118 cord_individual_obj[indivial_i,:] = [ 23. 11. 132. 143.]
119 cord_individual_obj[indivial_i,:] = [ 24. 7. 114. 121.]
120
121 min(cord_individual_obj[:,3]) = 53.0
122 historl_G_best_iter[iter,3] = 53.0
123 Begin iteration:
124
125 iter = 3
126 cord_individual_obj[indivial_i,:] = [ 0. 9. 97. 106.]
127 cord_individual_obj[indivial_i,:] = [ 1. 8. 73. 81.]
128 cord_individual_obj[indivial_i,:] = [ 2. 6. 122. 128.]
129 cord_individual_obj[indivial_i,:] = [ 3. 8. 53. 61.]
130 cord_individual_obj[indivial_i,:] = [ 4. 7. 59. 66.]
131 cord_individual_obj[indivial_i,:] = [ 5. 9. 88. 97.]
132 cord_individual_obj[indivial_i,:] = [ 6. 7. 91. 98.]
133 cord_individual_obj[indivial_i,:] = [ 7. 7. 84. 91.]
134 cord_individual_obj[indivial_i,:] = [ 8. 7. 123. 130.]
135 cord_individual_obj[indivial_i,:] = [ 9. 7. 74. 81.]
136 cord_individual_obj[indivial_i,:] = [10. 7. 82. 89.]
137 cord_individual_obj[indivial_i,:] = [11. 8. 99. 107.]
138 cord_individual_obj[indivial_i,:] = [12. 7. 46. 53.]
139 cord_individual_obj[indivial_i,:] = [13. 7. 72. 79.]
140 cord_individual_obj[indivial_i,:] = [14. 8. 88. 96.]
141 cord_individual_obj[indivial_i,:] = [15. 8. 70. 78.]
142 cord_individual_obj[indivial_i,:] = [16. 8. 91. 99.]
143 cord_individual_obj[indivial_i,:] = [17. 9. 163. 172.]
144 cord_individual_obj[indivial_i,:] = [18. 9. 101. 110.]
145 cord_individual_obj[indivial_i,:] = [19. 8. 42. 50.]
146 cord_individual_obj[indivial_i,:] = [20. 9. 146. 155.]
147 cord_individual_obj[indivial_i,:] = [21. 8. 153. 161.]
148 cord_individual_obj[indivial_i,:] = [22. 6. 47. 53.]
149 cord_individual_obj[indivial_i,:] = [23. 8. 95. 103.]
150 cord_individual_obj[indivial_i,:] = [24. 9. 59. 68.]
151
152 min(cord_individual_obj[:,3]) = 50.0
153 historl_G_best_iter[iter,3] = 50.0
154 Begin iteration:
155
156 iter = 4
157 cord_individual_obj[indivial_i,:] = [ 0. 9. 103. 112.]
158 cord_individual_obj[indivial_i,:] = [ 1. 8. 65. 73.]
159 cord_individual_obj[indivial_i,:] = [ 2. 6. 179. 185.]
160 cord_individual_obj[indivial_i,:] = [ 3. 9. 122. 131.]
161 cord_individual_obj[indivial_i,:] = [ 4. 7. 107. 114.]
162 cord_individual_obj[indivial_i,:] = [ 5. 8. 118. 126.]
163 cord_individual_obj[indivial_i,:] = [ 6. 8. 134. 142.]

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164 cord_individual_obj[indivial_i,:] = [ 7. 7.222.229.]
165 cord_individual_obj[indivial_i,:] = [ 8. 8.158.166.]
166 cord_individual_obj[indivial_i,:] = [ 9. 8.159.167.]
167 cord_individual_obj[indivial_i,:] = [10. 10.139.149.]
168 cord_individual_obj[indivial_i,:] = [11. 8.117.125.]
169 cord_individual_obj[indivial_i,:] = [12. 9.90.99.]
170 cord_individual_obj[indivial_i,:] = [13. 9.85.94.]
171 cord_individual_obj[indivial_i,:] = [14. 9.72.81.]
172 cord_individual_obj[indivial_i,:] = [15. 7.118.125.]
173 cord_individual_obj[indivial_i,:] = [16. 6.85.91.]
174 cord_individual_obj[indivial_i,:] = [17. 8.42.50.]
175 cord_individual_obj[indivial_i,:] = [18. 7.95.102.]
176 cord_individual_obj[indivial_i,:] = [19. 9.138.147.]
177 cord_individual_obj[indivial_i,:] = [20. 9.85.94.]
178 cord_individual_obj[indivial_i,:] = [21. 7.102.109.]
179 cord_individual_obj[indivial_i,:] = [22. 9.74.83.]
180 cord_individual_obj[indivial_i,:] = [23. 10.81.91.]
181 cord_individual_obj[indivial_i,:] = [24. 8.156.164.]
182
183 min(cord_individual_obj[:,3]) = 50.0
184 historl_G_best_iter[iter,3] = 50.0
185 Begin iteration:
186
187 iter = 5
188 cord_individual_obj[indivial_i,:] = [ 0. 8.54.62.]
189 cord_individual_obj[indivial_i,:] = [ 1. 6.123.129.]
190 cord_individual_obj[indivial_i,:] = [ 2. 6.74.80.]
191 cord_individual_obj[indivial_i,:] = [ 3. 8.91.99.]
192 cord_individual_obj[indivial_i,:] = [ 4. 7.134.141.]
193 cord_individual_obj[indivial_i,:] = [ 5. 8.158.166.]
194 cord_individual_obj[indivial_i,:] = [ 6. 8.94.102.]
195 cord_individual_obj[indivial_i,:] = [ 7. 8.42.50.]
196 cord_individual_obj[indivial_i,:] = [ 8. 7.62.69.]
197 cord_individual_obj[indivial_i,:] = [ 9. 7.117.124.]
198 cord_individual_obj[indivial_i,:] = [10. 8.135.143.]
199 cord_individual_obj[indivial_i,:] = [11. 7.85.92.]
200 cord_individual_obj[indivial_i,:] = [12. 9.103.112.]
201 cord_individual_obj[indivial_i,:] = [13. 7.79.86.]
202 cord_individual_obj[indivial_i,:] = [14. 8.86.94.]
203 cord_individual_obj[indivial_i,:] = [15. 7.100.107.]
204 cord_individual_obj[indivial_i,:] = [16. 7.74.81.]
205 cord_individual_obj[indivial_i,:] = [17. 7.80.87.]
206 cord_individual_obj[indivial_i,:] = [18. 8.76.84.]
207 cord_individual_obj[indivial_i,:] = [19. 9.82.91.]
208 cord_individual_obj[indivial_i,:] = [20. 8.128.136.]
209 cord_individual_obj[indivial_i,:] = [21. 7.83.90.]
210 cord_individual_obj[indivial_i,:] = [22. 6.129.135.]
211 cord_individual_obj[indivial_i,:] = [23. 8.127.135.]
212 cord_individual_obj[indivial_i,:] = [24. 7.124.131.]
213
214 min(cord_individual_obj[:,3]) = 50.0
215 historl_G_best_iter[iter,3] = 50.0
216 Begin iteration:
217
218 iter = 6
219 cord_individual_obj[indivial_i,:] = [ 0. 9.119.128.]
220 cord_individual_obj[indivial_i,:] = [ 1. 8.118.126.]
221 cord_individual_obj[indivial_i,:] = [ 2. 7.100.107.]
222 cord_individual_obj[indivial_i,:] = [ 3. 7.165.172.]
223 cord_individual_obj[indivial_i,:] = [ 4. 8.162.170.]
224 cord_individual_obj[indivial_i,:] = [ 5. 8.42.50.]
225 cord_individual_obj[indivial_i,:] = [ 6. 7.132.139.]
226 cord_individual_obj[indivial_i,:] = [ 7. 6.105.111.]
227 cord_individual_obj[indivial_i,:] = [ 8. 9.100.109.]
228 cord_individual_obj[indivial_i,:] = [ 9. 9.171.180.]
229 cord_individual_obj[indivial_i,:] = [10. 7.141.148.]
230 cord_individual_obj[indivial_i,:] = [11. 7.105.112.]
231 cord_individual_obj[indivial_i,:] = [12. 9.93.102.]
232 cord_individual_obj[indivial_i,:] = [13. 8.87.95.]
233 cord_individual_obj[indivial_i,:] = [14. 7.123.130.]
234 cord_individual_obj[indivial_i,:] = [15. 7.111.118.]
235 cord_individual_obj[indivial_i,:] = [16. 7.109.116.]
236 cord_individual_obj[indivial_i,:] = [17. 7.90.97.]
237 cord_individual_obj[indivial_i,:] = [18. 7.84.91.]
238 cord_individual_obj[indivial_i,:] = [19. 7.83.90.]
239 cord_individual_obj[indivial_i,:] = [20. 8.109.117.]
240 cord_individual_obj[indivial_i,:] = [21. 6.86.92.]
241 cord_individual_obj[indivial_i,:] = [22. 8.142.150.]
242 cord_individual_obj[indivial_i,:] = [23. 8.92.100.]
243 cord_individual_obj[indivial_i,:] = [24. 6.153.159.]
244
245 min(cord_individual_obj[:,3]) = 50.0
246 historl_G_best_iter[iter,3] = 50.0
247 Begin iteration:

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248
249 iter = 7
250 cord_individual_obj[indivial_i, :] = [ 0. 11. 101. 112.]
251 cord_individual_obj[indivial_i, :] = [ 1. 7. 111. 118.]
252 cord_individual_obj[indivial_i, :] = [ 2. 7. 83. 90.]
253 cord_individual_obj[indivial_i, :] = [ 3. 6. 108. 114.]
254 cord_individual_obj[indivial_i, :] = [ 4. 7. 97. 104.]
255 cord_individual_obj[indivial_i, :] = [ 5. 7. 117. 124.]
256 cord_individual_obj[indivial_i, :] = [ 6. 8. 94. 102.]
257 cord_individual_obj[indivial_i, :] = [ 7. 7. 86. 93.]
258 cord_individual_obj[indivial_i, :] = [ 8. 7. 101. 108.]
259 cord_individual_obj[indivial_i, :] = [ 9. 8. 42. 50.]
260 cord_individual_obj[indivial_i, :] = [10. 7. 66. 73.]
261 cord_individual_obj[indivial_i, :] = [11. 7. 115. 122.]
262 cord_individual_obj[indivial_i, :] = [12. 9. 86. 95.]
263 cord_individual_obj[indivial_i, :] = [13. 8. 141. 149.]
264 cord_individual_obj[indivial_i, :] = [14. 9. 78. 87.]
265 cord_individual_obj[indivial_i, :] = [15. 8. 129. 137.]
266 cord_individual_obj[indivial_i, :] = [16. 8. 107. 115.]
267 cord_individual_obj[indivial_i, :] = [17. 8. 140. 148.]
268 cord_individual_obj[indivial_i, :] = [18. 10. 108. 118.]
269 cord_individual_obj[indivial_i, :] = [19. 7. 64. 71.]
270 cord_individual_obj[indivial_i, :] = [20. 8. 67. 75.]
271 cord_individual_obj[indivial_i, :] = [21. 8. 79. 87.]
272 cord_individual_obj[indivial_i, :] = [22. 8. 43. 51.]
273 cord_individual_obj[indivial_i, :] = [23. 8. 125. 133.]
274 cord_individual_obj[indivial_i, :] = [24. 8. 84. 92.]
275

276 min(cord_individual_obj[:, 3]) = 50.0
277 historl_G_best_iter[iter, 3] = 50.0
278 Begin iteration:
279
280 iter = 8
281 cord_individual_obj[indivial_i, :] = [ 0. 8. 69. 77.]
282 cord_individual_obj[indivial_i, :] = [ 1. 8. 97. 105.]
283 cord_individual_obj[indivial_i, :] = [ 2. 7. 97. 104.]
284 cord_individual_obj[indivial_i, :] = [ 3. 7. 116. 123.]
285 cord_individual_obj[indivial_i, :] = [ 4. 10. 112. 122.]
286 cord_individual_obj[indivial_i, :] = [ 5. 9. 118. 127.]
287 cord_individual_obj[indivial_i, :] = [ 6. 7. 80. 87.]
288 cord_individual_obj[indivial_i, :] = [ 7. 7. 107. 114.]
289 cord_individual_obj[indivial_i, :] = [ 8. 7. 122. 129.]
290 cord_individual_obj[indivial_i, :] = [ 9. 8. 108. 116.]
291 cord_individual_obj[indivial_i, :] = [10. 7. 128. 135.]
292 cord_individual_obj[indivial_i, :] = [11. 9. 124. 133.]
293 cord_individual_obj[indivial_i, :] = [12. 6. 114. 120.]
294 cord_individual_obj[indivial_i, :] = [13. 8. 42. 50.]
295 cord_individual_obj[indivial_i, :] = [14. 8. 102. 110.]
296 cord_individual_obj[indivial_i, :] = [15. 7. 206. 213.]
297 cord_individual_obj[indivial_i, :] = [16. 6. 61. 67.]
298 cord_individual_obj[indivial_i, :] = [17. 7. 93. 100.]
299 cord_individual_obj[indivial_i, :] = [18. 9. 112. 121.]
300 cord_individual_obj[indivial_i, :] = [19. 10. 93. 103.]
301 cord_individual_obj[indivial_i, :] = [20. 8. 97. 105.]
302 cord_individual_obj[indivial_i, :] = [21. 7. 112. 119.]
303 cord_individual_obj[indivial_i, :] = [22. 6. 123. 129.]
304 cord_individual_obj[indivial_i, :] = [23. 7. 109. 116.]
305 cord_individual_obj[indivial_i, :] = [24. 7. 146. 153.]
306

307 min(cord_individual_obj[:, 3]) = 50.0
308 historl_G_best_iter[iter, 3] = 50.0
309 Begin iteration:
310
311 iter = 9
312 cord_individual_obj[indivial_i, :] = [ 0. 8. 104. 112.]
313 cord_individual_obj[indivial_i, :] = [ 1. 7. 67. 74.]
314 cord_individual_obj[indivial_i, :] = [ 2. 7. 105. 112.]
315 cord_individual_obj[indivial_i, :] = [ 3. 7. 96. 103.]
316 cord_individual_obj[indivial_i, :] = [ 4. 8. 126. 134.]
317 cord_individual_obj[indivial_i, :] = [ 5. 7. 103. 110.]
318 cord_individual_obj[indivial_i, :] = [ 6. 8. 79. 87.]
319 cord_individual_obj[indivial_i, :] = [ 7. 7. 109. 116.]
320 cord_individual_obj[indivial_i, :] = [ 8. 9. 132. 141.]
321 cord_individual_obj[indivial_i, :] = [ 9. 8. 111. 119.]
322 cord_individual_obj[indivial_i, :] = [10. 7. 160. 167.]
323 cord_individual_obj[indivial_i, :] = [11. 7. 110. 117.]
324 cord_individual_obj[indivial_i, :] = [12. 9. 87. 96.]
325 cord_individual_obj[indivial_i, :] = [13. 9. 167. 176.]
326 cord_individual_obj[indivial_i, :] = [14. 7. 124. 131.]
327 cord_individual_obj[indivial_i, :] = [15. 8. 42. 50.]
328 cord_individual_obj[indivial_i, :] = [16. 8. 133. 141.]
329 cord_individual_obj[indivial_i, :] = [17. 6. 106. 112.]
330 cord_individual_obj[indivial_i, :] = [18. 9. 86. 95.]
331 cord_individual_obj[indivial_i, :] = [19. 8. 128. 136.]

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unknown

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332 cord_individual_obj[indivial_i,:] = [ 20. 8. 151. 159.]
333 cord_individual_obj[indivial_i,:] = [21. 8. 78. 86.]
334 cord_individual_obj[indivial_i,:] = [ 22. 9. 149. 158.]
335 cord_individual_obj[indivial_i,:] = [ 23. 7. 97. 104.]
336 cord_individual_obj[indivial_i,:] = [ 24. 8. 100. 108.]
337
338 min(cord_individual_obj[:,3]) = 50.0
339 histol_G_best_iter[iter,3] = 50.0
340 Begin iteration:
341
342 iter = 10
343 cord_individual_obj[indivial_i,:] = [ 0. 9. 73. 82.]
344 cord_individual_obj[indivial_i,:] = [ 1. 10. 65. 75.]
345 cord_individual_obj[indivial_i,:] = [ 2. 6. 91. 97.]
346 cord_individual_obj[indivial_i,:] = [ 3. 6. 96. 102.]
347 cord_individual_obj[indivial_i,:] = [ 4. 9. 134. 143.]
348 cord_individual_obj[indivial_i,:] = [ 5. 6. 150. 156.]
349 cord_individual_obj[indivial_i,:] = [ 6. 8. 128. 136.]
350 cord_individual_obj[indivial_i,:] = [ 7. 6. 72. 78.]
351 cord_individual_obj[indivial_i,:] = [ 8. 5. 121. 126.]
352 cord_individual_obj[indivial_i,:] = [ 9. 7. 74. 81.]
353 cord_individual_obj[indivial_i,:] = [ 10. 8. 105. 113.]
354 cord_individual_obj[indivial_i,:] = [ 11. 8. 107. 115.]
355 cord_individual_obj[indivial_i,:] = [ 12. 9. 54. 63.]
356 cord_individual_obj[indivial_i,:] = [ 13. 8. 42. 50.]
357 cord_individual_obj[indivial_i,:] = [ 14. 9. 59. 68.]
358 cord_individual_obj[indivial_i,:] = [ 15. 7. 134. 141.]
359 cord_individual_obj[indivial_i,:] = [ 16. 10. 111. 121.]
360 cord_individual_obj[indivial_i,:] = [ 17. 7. 60. 67.]
361 cord_individual_obj[indivial_i,:] = [ 18. 8. 76. 84.]
362 cord_individual_obj[indivial_i,:] = [ 19. 9. 83. 92.]
363 cord_individual_obj[indivial_i,:] = [ 20. 6. 106. 112.]
364 cord_individual_obj[indivial_i,:] = [ 21. 7. 103. 110.]
365 cord_individual_obj[indivial_i,:] = [ 22. 7. 77. 84.]
366 cord_individual_obj[indivial_i,:] = [ 23. 9. 96. 105.]
367 cord_individual_obj[indivial_i,:] = [ 24. 7. 95. 102.]
368
369 min(cord_individual_obj[:,3]) = 50.0
370 histol_G_best_iter[iter,3] = 50.0
371 Begin iteration:
372
373 iter = 11
374 cord_individual_obj[indivial_i,:] = [ 0. 8. 101. 109.]
375 cord_individual_obj[indivial_i,:] = [ 1. 7. 137. 144.]
376 cord_individual_obj[indivial_i,:] = [ 2. 7. 83. 90.]
377 cord_individual_obj[indivial_i,:] = [ 3. 8. 166. 174.]
378 cord_individual_obj[indivial_i,:] = [ 4. 8. 113. 121.]
379 cord_individual_obj[indivial_i,:] = [ 5. 8. 42. 50.]
380 cord_individual_obj[indivial_i,:] = [ 6. 8. 92. 100.]
381 cord_individual_obj[indivial_i,:] = [ 7. 7. 153. 160.]
382 cord_individual_obj[indivial_i,:] = [ 8. 9. 103. 112.]
383 cord_individual_obj[indivial_i,:] = [ 9. 7. 70. 77.]
384 cord_individual_obj[indivial_i,:] = [ 10. 8. 145. 153.]
385 cord_individual_obj[indivial_i,:] = [ 11. 7. 68. 75.]
386 cord_individual_obj[indivial_i,:] = [ 12. 8. 90. 98.]
387 cord_individual_obj[indivial_i,:] = [ 13. 8. 132. 140.]
388 cord_individual_obj[indivial_i,:] = [ 14. 7. 81. 88.]
389 cord_individual_obj[indivial_i,:] = [ 15. 8. 117. 125.]
390 cord_individual_obj[indivial_i,:] = [ 16. 8. 84. 92.]
391 cord_individual_obj[indivial_i,:] = [ 17. 9. 96. 105.]
392 cord_individual_obj[indivial_i,:] = [ 18. 8. 122. 130.]
393 cord_individual_obj[indivial_i,:] = [ 19. 7. 100. 107.]
394 cord_individual_obj[indivial_i,:] = [ 20. 8. 103. 111.]
395 cord_individual_obj[indivial_i,:] = [ 21. 8. 121. 129.]
396 cord_individual_obj[indivial_i,:] = [ 22. 8. 85. 93.]
397 cord_individual_obj[indivial_i,:] = [ 23. 6. 88. 94.]
398 cord_individual_obj[indivial_i,:] = [ 24. 8. 144. 152.]
399
400 min(cord_individual_obj[:,3]) = 50.0
401 histol_G_best_iter[iter,3] = 50.0
402 Begin iteration:
403
404 iter = 12
405 cord_individual_obj[indivial_i,:] = [ 0. 7. 106. 113.]
406 cord_individual_obj[indivial_i,:] = [ 1. 8. 59. 67.]
407 cord_individual_obj[indivial_i,:] = [ 2. 7. 95. 102.]
408 cord_individual_obj[indivial_i,:] = [ 3. 8. 42. 50.]
409 cord_individual_obj[indivial_i,:] = [ 4. 7. 120. 127.]
410 cord_individual_obj[indivial_i,:] = [ 5. 9. 103. 112.]
411 cord_individual_obj[indivial_i,:] = [ 6. 8. 83. 91.]
412 cord_individual_obj[indivial_i,:] = [ 7. 7. 131. 138.]
413 cord_individual_obj[indivial_i,:] = [ 8. 8. 96. 104.]
414 cord_individual_obj[indivial_i,:] = [ 9. 8. 109. 117.]
415 cord_individual_obj[indivial_i,:] = [ 10. 7. 106. 113.]
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416 cord_individual_obj[indivial_i,:] = [11. 8. 84. 92.]
417 cord_individual_obj[indivial_i,:] = [12. 8. 100. 108.]
418 cord_individual_obj[indivial_i,:] = [13. 8. 80. 88.]
419 cord_individual_obj[indivial_i,:] = [14. 7. 97. 104.]
420 cord_individual_obj[indivial_i,:] = [15. 8. 113. 121.]
421 cord_individual_obj[indivial_i,:] = [16. 7. 134. 141.]
422 cord_individual_obj[indivial_i,:] = [17. 8. 127. 135.]
423 cord_individual_obj[indivial_i,:] = [18. 10. 155. 165.]
424 cord_individual_obj[indivial_i,:] = [19. 11. 95. 106.]
425 cord_individual_obj[indivial_i,:] = [20. 9. 122. 131.]
426 cord_individual_obj[indivial_i,:] = [21. 7. 67. 74.]
427 cord_individual_obj[indivial_i,:] = [22. 7. 158. 165.]
428 cord_individual_obj[indivial_i,:] = [23. 7. 116. 123.]
429 cord_individual_obj[indivial_i,:] = [24. 8. 117. 125.]
430
431 min(cord_individual_obj[:,3]) = 50.0
432 histol_G_best_iter[iter,3] = 50.0
433 Begin iteration:
434
435 iter = 13
436 cord_individual_obj[indivial_i,:] = [0. 6. 88. 94.]
437 cord_individual_obj[indivial_i,:] = [1. 7. 74. 81.]
438 cord_individual_obj[indivial_i,:] = [2. 6. 93. 99.]
439 cord_individual_obj[indivial_i,:] = [3. 6. 111. 117.]
440 cord_individual_obj[indivial_i,:] = [4. 8. 160. 168.]
441 cord_individual_obj[indivial_i,:] = [5. 9. 120. 129.]
442 cord_individual_obj[indivial_i,:] = [6. 8. 96. 104.]
443 cord_individual_obj[indivial_i,:] = [7. 9. 156. 165.]
444 cord_individual_obj[indivial_i,:] = [8. 7. 117. 124.]
445 cord_individual_obj[indivial_i,:] = [9. 8. 115. 123.]
446 cord_individual_obj[indivial_i,:] = [10. 7. 182. 189.]
447 cord_individual_obj[indivial_i,:] = [11. 9. 117. 126.]
448 cord_individual_obj[indivial_i,:] = [12. 8. 80. 88.]
449 cord_individual_obj[indivial_i,:] = [13. 8. 89. 97.]
450 cord_individual_obj[indivial_i,:] = [14. 7. 118. 125.]
451 cord_individual_obj[indivial_i,:] = [15. 6. 156. 162.]
452 cord_individual_obj[indivial_i,:] = [16. 6. 107. 113.]
453 cord_individual_obj[indivial_i,:] = [17. 7. 116. 123.]
454 cord_individual_obj[indivial_i,:] = [18. 8. 42. 50.]
455 cord_individual_obj[indivial_i,:] = [19. 8. 107. 115.]
456 cord_individual_obj[indivial_i,:] = [20. 7. 107. 114.]
457 cord_individual_obj[indivial_i,:] = [21. 7. 85. 92.]
458 cord_individual_obj[indivial_i,:] = [22. 8. 141. 149.]
459 cord_individual_obj[indivial_i,:] = [23. 7. 94. 101.]
460 cord_individual_obj[indivial_i,:] = [24. 6. 172. 178.]
461
462 min(cord_individual_obj[:,3]) = 50.0
463 histol_G_best_iter[iter,3] = 50.0
464 Begin iteration:
465
466 iter = 14
467 cord_individual_obj[indivial_i,:] = [0. 9. 122. 131.]
468 cord_individual_obj[indivial_i,:] = [1. 8. 113. 121.]
469 cord_individual_obj[indivial_i,:] = [2. 9. 114. 123.]
470 cord_individual_obj[indivial_i,:] = [3. 8. 137. 145.]
471 cord_individual_obj[indivial_i,:] = [4. 8. 143. 151.]
472 cord_individual_obj[indivial_i,:] = [5. 7. 116. 123.]
473 cord_individual_obj[indivial_i,:] = [6. 8. 139. 147.]
474 cord_individual_obj[indivial_i,:] = [7. 7. 101. 108.]
475 cord_individual_obj[indivial_i,:] = [8. 7. 124. 131.]
476 cord_individual_obj[indivial_i,:] = [9. 7. 132. 139.]
477 cord_individual_obj[indivial_i,:] = [10. 8. 42. 50.]
478 cord_individual_obj[indivial_i,:] = [11. 9. 140. 149.]
479 cord_individual_obj[indivial_i,:] = [12. 7. 84. 91.]
480 cord_individual_obj[indivial_i,:] = [13. 7. 57. 64.]
481 cord_individual_obj[indivial_i,:] = [14. 7. 115. 122.]
482 cord_individual_obj[indivial_i,:] = [15. 7. 109. 116.]
483 cord_individual_obj[indivial_i,:] = [16. 8. 114. 122.]
484 cord_individual_obj[indivial_i,:] = [17. 7. 88. 95.]
485 cord_individual_obj[indivial_i,:] = [18. 10. 114. 124.]
486 cord_individual_obj[indivial_i,:] = [19. 10. 120. 130.]
487 cord_individual_obj[indivial_i,:] = [20. 8. 72. 80.]
488 cord_individual_obj[indivial_i,:] = [21. 7. 114. 121.]
489 cord_individual_obj[indivial_i,:] = [22. 7. 128. 135.]
490 cord_individual_obj[indivial_i,:] = [23. 6. 89. 95.]
491 cord_individual_obj[indivial_i,:] = [24. 8. 186. 194.]
492
493 min(cord_individual_obj[:,3]) = 50.0
494 histol_G_best_iter[iter,3] = 50.0
495 Begin iteration:
496
497 iter = 15
498 cord_individual_obj[indivial_i,:] = [0. 8. 91. 99.]
499 cord_individual_obj[indivial_i,:] = [1. 7. 58. 65.]

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500 cord_individual_obj[indivial_i,:] = [ 2. 7. 99. 106.]
501 cord_individual_obj[indivial_i,:] = [ 3. 8. 121. 129.]
502 cord_individual_obj[indivial_i,:] = [ 4. 7. 101. 108.]
503 cord_individual_obj[indivial_i,:] = [ 5. 8. 125. 133.]
504 cord_individual_obj[indivial_i,:] = [ 6. 9. 102. 111.]
505 cord_individual_obj[indivial_i,:] = [ 7. 8. 125. 133.]
506 cord_individual_obj[indivial_i,:] = [ 8. 8. 113. 121.]
507 cord_individual_obj[indivial_i,:] = [ 9. 8. 133. 141.]
508 cord_individual_obj[indivial_i,:] = [ 10. 7. 149. 156.]
509 cord_individual_obj[indivial_i,:] = [ 11. 8. 144. 152.]
510 cord_individual_obj[indivial_i,:] = [ 12. 8. 158. 166.]
511 cord_individual_obj[indivial_i,:] = [ 13. 8. 93. 101.]
512 cord_individual_obj[indivial_i,:] = [ 14. 7. 97. 104.]
513 cord_individual_obj[indivial_i,:] = [ 15. 8. 79. 87.]
514 cord_individual_obj[indivial_i,:] = [ 16. 8. 79. 87.]
515 cord_individual_obj[indivial_i,:] = [ 17. 8. 116. 124.]
516 cord_individual_obj[indivial_i,:] = [ 18. 9. 120. 129.]
517 cord_individual_obj[indivial_i,:] = [ 19. 10. 91. 101.]
518 cord_individual_obj[indivial_i,:] = [ 20. 7. 123. 130.]
519 cord_individual_obj[indivial_i,:] = [ 21. 6. 88. 94.]
520 cord_individual_obj[indivial_i,:] = [ 22. 9. 96. 105.]
521 cord_individual_obj[indivial_i,:] = [ 23. 6. 113. 119.]
522 cord_individual_obj[indivial_i,:] = [ 24. 8. 42. 50.]
523
524 min(cord_individual_obj[:, 3]) = 50.0
525 histol_G_best_iter[iter, 3] = 50.0
526 Begin iteration:
527
528 iter = 16
529 cord_individual_obj[indivial_i,:] = [ 0. 9. 144. 153.]
530 cord_individual_obj[indivial_i,:] = [ 1. 8. 81. 89.]
531 cord_individual_obj[indivial_i,:] = [ 2. 9. 128. 137.]
532 cord_individual_obj[indivial_i,:] = [ 3. 8. 123. 131.]
533 cord_individual_obj[indivial_i,:] = [ 4. 8. 108. 116.]
534 cord_individual_obj[indivial_i,:] = [ 5. 8. 111. 119.]
535 cord_individual_obj[indivial_i,:] = [ 6. 7. 56. 63.]
536 cord_individual_obj[indivial_i,:] = [ 7. 7. 108. 115.]
537 cord_individual_obj[indivial_i,:] = [ 8. 7. 109. 116.]
538 cord_individual_obj[indivial_i,:] = [ 9. 6. 68. 74.]
539 cord_individual_obj[indivial_i,:] = [ 10. 7. 99. 106.]
540 cord_individual_obj[indivial_i,:] = [ 11. 8. 133. 141.]
541 cord_individual_obj[indivial_i,:] = [ 12. 8. 42. 50.]
542 cord_individual_obj[indivial_i,:] = [ 13. 8. 67. 75.]
543 cord_individual_obj[indivial_i,:] = [ 14. 7. 97. 104.]
544 cord_individual_obj[indivial_i,:] = [ 15. 8. 126. 134.]
545 cord_individual_obj[indivial_i,:] = [ 16. 7. 69. 76.]
546 cord_individual_obj[indivial_i,:] = [ 17. 7. 177. 184.]
547 cord_individual_obj[indivial_i,:] = [ 18. 10. 101. 111.]
548 cord_individual_obj[indivial_i,:] = [ 19. 8. 94. 102.]
549 cord_individual_obj[indivial_i,:] = [ 20. 10. 116. 126.]
550 cord_individual_obj[indivial_i,:] = [ 21. 6. 59. 65.]
551 cord_individual_obj[indivial_i,:] = [ 22. 8. 152. 160.]
552 cord_individual_obj[indivial_i,:] = [ 23. 8. 96. 104.]
553 cord_individual_obj[indivial_i,:] = [ 24. 7. 83. 90.]
554
555 min(cord_individual_obj[:, 3]) = 50.0
556 histol_G_best_iter[iter, 3] = 50.0
557 Begin iteration:
558
559 iter = 17
560 cord_individual_obj[indivial_i,:] = [ 0. 7. 77. 84.]
561 cord_individual_obj[indivial_i,:] = [ 1. 8. 112. 120.]
562 cord_individual_obj[indivial_i,:] = [ 2. 8. 57. 65.]
563 cord_individual_obj[indivial_i,:] = [ 3. 8. 83. 91.]
564 cord_individual_obj[indivial_i,:] = [ 4. 8. 135. 143.]
565 cord_individual_obj[indivial_i,:] = [ 5. 7. 97. 104.]
566 cord_individual_obj[indivial_i,:] = [ 6. 7. 140. 147.]
567 cord_individual_obj[indivial_i,:] = [ 7. 7. 81. 88.]
568 cord_individual_obj[indivial_i,:] = [ 8. 8. 74. 82.]
569 cord_individual_obj[indivial_i,:] = [ 9. 6. 80. 86.]
570 cord_individual_obj[indivial_i,:] = [ 10. 7. 158. 165.]
571 cord_individual_obj[indivial_i,:] = [ 11. 7. 89. 96.]
572 cord_individual_obj[indivial_i,:] = [ 12. 8. 107. 115.]
573 cord_individual_obj[indivial_i,:] = [ 13. 6. 126. 132.]
574 cord_individual_obj[indivial_i,:] = [ 14. 9. 115. 124.]
575 cord_individual_obj[indivial_i,:] = [ 15. 7. 86. 93.]
576 cord_individual_obj[indivial_i,:] = [ 16. 8. 53. 61.]
577 cord_individual_obj[indivial_i,:] = [ 17. 8. 42. 50.]
578 cord_individual_obj[indivial_i,:] = [ 18. 11. 117. 128.]
579 cord_individual_obj[indivial_i,:] = [ 19. 8. 56. 64.]
580 cord_individual_obj[indivial_i,:] = [ 20. 7. 116. 123.]
581 cord_individual_obj[indivial_i,:] = [ 21. 7. 63. 70.]
582 cord_individual_obj[indivial_i,:] = [ 22. 7. 90. 97.]
583 cord_individual_obj[indivial_i,:] = [ 23. 9. 81. 90.]

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unknown

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584     cord_individual_obj[indivial_i, :] = [24. 9. 69. 78.]  
585  
586     min(cord_individual_obj[:, 3]) = 50.0  
587     historl_G_best_iter[iter, 3] = 50.0  
588 Begin iteration:  
589  
590 iter = 18  
591     cord_individual_obj[indivial_i, :] = [ 0. 7. 80. 87.]  
592     cord_individual_obj[indivial_i, :] = [ 1. 9. 85. 94.]  
593     cord_individual_obj[indivial_i, :] = [ 2. 7. 84. 91.]  
594     cord_individual_obj[indivial_i, :] = [ 3. 8. 168. 176.]  
595     cord_individual_obj[indivial_i, :] = [ 4. 7. 116. 123.]  
596     cord_individual_obj[indivial_i, :] = [ 5. 9. 150. 159.]  
597     cord_individual_obj[indivial_i, :] = [ 6. 10. 115. 125.]  
598     cord_individual_obj[indivial_i, :] = [ 7. 8. 212. 220.]  
599     cord_individual_obj[indivial_i, :] = [ 8. 9. 113. 122.]  
600     cord_individual_obj[indivial_i, :] = [ 9. 7. 71. 78.]  
601     cord_individual_obj[indivial_i, :] = [10. 8. 42. 50.]  
602     cord_individual_obj[indivial_i, :] = [11. 6. 130. 136.]  
603     cord_individual_obj[indivial_i, :] = [12. 7. 68. 75.]  
604     cord_individual_obj[indivial_i, :] = [13. 7. 98. 105.]  
605     cord_individual_obj[indivial_i, :] = [14. 9. 132. 141.]  
606     cord_individual_obj[indivial_i, :] = [15. 7. 123. 130.]  
607     cord_individual_obj[indivial_i, :] = [16. 6. 123. 129.]  
608     cord_individual_obj[indivial_i, :] = [17. 6. 69. 75.]  
609     cord_individual_obj[indivial_i, :] = [18. 9. 102. 111.]  
610     cord_individual_obj[indivial_i, :] = [19. 8. 160. 168.]  
611     cord_individual_obj[indivial_i, :] = [20. 7. 86. 93.]  
612     cord_individual_obj[indivial_i, :] = [21. 8. 52. 60.]  
613     cord_individual_obj[indivial_i, :] = [22. 10. 128. 138.]  
614     cord_individual_obj[indivial_i, :] = [23. 7. 67. 74.]  
615     cord_individual_obj[indivial_i, :] = [24. 8. 108. 116.]  
616  
617     min(cord_individual_obj[:, 3]) = 50.0  
618     historl_G_best_iter[iter, 3] = 50.0  
619 Begin iteration:  
620  
621 iter = 19  
622     cord_individual_obj[indivial_i, :] = [ 0. 10. 85. 95.]  
623     cord_individual_obj[indivial_i, :] = [ 1. 9. 123. 132.]  
624     cord_individual_obj[indivial_i, :] = [ 2. 8. 118. 126.]  
625     cord_individual_obj[indivial_i, :] = [ 3. 5. 82. 87.]  
626     cord_individual_obj[indivial_i, :] = [ 4. 8. 126. 134.]  
627     cord_individual_obj[indivial_i, :] = [ 5. 8. 85. 93.]  
628     cord_individual_obj[indivial_i, :] = [ 6. 10. 118. 128.]  
629     cord_individual_obj[indivial_i, :] = [ 7. 8. 42. 50.]  
630     cord_individual_obj[indivial_i, :] = [ 8. 7. 76. 83.]  
631     cord_individual_obj[indivial_i, :] = [ 9. 8. 131. 139.]  
632     cord_individual_obj[indivial_i, :] = [10. 6. 124. 130.]  
633     cord_individual_obj[indivial_i, :] = [11. 11. 128. 139.]  
634     cord_individual_obj[indivial_i, :] = [12. 8. 71. 79.]  
635     cord_individual_obj[indivial_i, :] = [13. 9. 130. 139.]  
636     cord_individual_obj[indivial_i, :] = [14. 9. 98. 107.]  
637     cord_individual_obj[indivial_i, :] = [15. 8. 136. 144.]  
638     cord_individual_obj[indivial_i, :] = [16. 7. 110. 117.]  
639     cord_individual_obj[indivial_i, :] = [17. 8. 137. 145.]  
640     cord_individual_obj[indivial_i, :] = [18. 9. 122. 131.]  
641     cord_individual_obj[indivial_i, :] = [19. 8. 107. 115.]  
642     cord_individual_obj[indivial_i, :] = [20. 8. 144. 152.]  
643     cord_individual_obj[indivial_i, :] = [21. 7. 105. 112.]  
644     cord_individual_obj[indivial_i, :] = [22. 7. 115. 122.]  
645     cord_individual_obj[indivial_i, :] = [23. 8. 158. 166.]  
646     cord_individual_obj[indivial_i, :] = [24. 8. 156. 164.]  
647  
648     min(cord_individual_obj[:, 3]) = 50.0  
649     historl_G_best_iter[iter, 3] = 50.0  
650 Begin iteration:  
651  
652 iter = 20  
653     cord_individual_obj[indivial_i, :] = [ 0. 7. 92. 99.]  
654     cord_individual_obj[indivial_i, :] = [ 1. 9. 83. 92.]  
655     cord_individual_obj[indivial_i, :] = [ 2. 7. 36. 43.]  
656     cord_individual_obj[indivial_i, :] = [ 3. 8. 70. 78.]  
657     cord_individual_obj[indivial_i, :] = [ 4. 7. 91. 98.]  
658     cord_individual_obj[indivial_i, :] = [ 5. 7. 187. 194.]  
659     cord_individual_obj[indivial_i, :] = [ 6. 8. 104. 112.]  
660     cord_individual_obj[indivial_i, :] = [ 7. 8. 112. 120.]  
661     cord_individual_obj[indivial_i, :] = [ 8. 7. 67. 74.]  
662     cord_individual_obj[indivial_i, :] = [ 9. 7. 122. 129.]  
663     cord_individual_obj[indivial_i, :] = [10. 8. 97. 105.]  
664     cord_individual_obj[indivial_i, :] = [11. 7. 108. 115.]  
665     cord_individual_obj[indivial_i, :] = [12. 7. 84. 91.]  
666     cord_individual_obj[indivial_i, :] = [13. 8. 116. 124.]  
667     cord_individual_obj[indivial_i, :] = [14. 7. 84. 91.]
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668 cord_individual_obj[indivial_i,:] = [ 15. 6. 113. 119.]
669 cord_individual_obj[indivial_i,:] = [ 16. 6. 150. 156.]
670 cord_individual_obj[indivial_i,:] = [ 17. 9. 94. 103.]
671 cord_individual_obj[indivial_i,:] = [ 18. 8. 105. 113.]
672 cord_individual_obj[indivial_i,:] = [ 19. 7. 91. 98.]
673 cord_individual_obj[indivial_i,:] = [ 20. 7. 90. 97.]
674 cord_individual_obj[indivial_i,:] = [ 21. 8. 77. 85.]
675 cord_individual_obj[indivial_i,:] = [ 22. 8. 107. 115.]
676 cord_individual_obj[indivial_i,:] = [ 23. 8. 42. 50.]
677 cord_individual_obj[indivial_i,:] = [ 24. 8. 103. 111.]
678
679 min(cord_individual_obj[:, 3]) = 43.0
680 historl_G_best_iter[iter, 3] = 43.0
681 Iteration calculate over
682
683
684
685
686 All item are in Bin and:
687 Bin area = 1080
688 Real_area = 178.0
689 Proportion_of_area = 0.1648148148148148
690 BEST_CHROM =
691 berth: [12. 11.5 18. 21. 26.5 4.5 13. 4. 4. 26.5 4. 10.5 15. 20.]
692 time: [2. 5. 5. 2. 3. 4. 4. 0. 1. 0. 2. 0. 0. 0.]
693 num_QC: [4. 5. 6. 3. 1. 2. 6. 3. 4. 1. 3. 5. 4. 4.]
694 Objective function values and some other indicators:
695 Obj0 = 7.00 Obj1 = 36.00 Obj0 + Obj1 = 43.00
696 Total movement of crane: 6.00
697 Total waiting time in berth position: 28.00
698 Total index of q during berthing: 750.00
699 Specific arrangement for each vessel:
700 V_id: 0 li: 8.0 xi: 12.0 bow of i: 8.0 tail of i: 16.0 gama_i0: 2.0 gama_i1: 3
701 .0 gama_i1 + 1: 4.0 gama_i1 - gama_i0: 1.0 duration_time_i: 2.0 demand_i: 120.0 work
702 load_i: 120.0 work load gap_i: 0
703 V_id: 1 li: 5.0 xi: 11.5 bow of i: 9.0 tail of i: 14.0 gama_i0: 5.0 gama_i1: 5
704 .0 gama_i1 + 1: 6.0 gama_i1 - gama_i0: 0.0 duration_time_i: 1.0 demand_i: 100.0 work
705 load_i: 100.0 work load gap_i: 0
706 V_id: 2 li: 8.0 xi: 18.0 bow of i: 14.0 tail of i: 22.0 gama_i0: 5.0 gama_i1: 5
707 .0 gama_i1 + 1: 6.0 gama_i1 - gama_i0: 0.0 duration_time_i: 1.0 demand_i: 100.0 work
708 load_i: 100.0 work load gap_i: 0
709 V_id: 3 li: 8.0 xi: 21.0 bow of i: 17.0 tail of i: 25.0 gama_i0: 2.0 gama_i1: 2
710 .0 gama_i1 + 1: 3.0 gama_i1 - gama_i0: 0.0 duration_time_i: 1.0 demand_i: 60.0 work
711 load_i: 60.0 work load gap_i: 0
712 V_id: 4 li: 3.0 xi: 26.5 bow of i: 25.0 tail of i: 28.0 gama_i0: 3.0 gama_i1: 5
713 .0 gama_i1 + 1: 6.0 gama_i1 - gama_i0: 2.0 duration_time_i: 3.0 demand_i: 60.0 work
714 load_i: 60.0 work load gap_i: 0
715 V_id: 5 li: 9.0 xi: 4.5 bow of i: 0.0 tail of i: 9.0 gama_i0: 4.0 gama_i1: 7.0
716 .0 gama_i1 + 1: 8.0 gama_i1 - gama_i0: 3.0 duration_time_i: 4.0 demand_i: 140.0 work load_i:
717 140.0 work load gap_i: 0
718 V_id: 6 li: 8.0 xi: 13.0 bow of i: 9.0 tail of i: 17.0 gama_i0: 4.0 gama_i1: 4
719 .0 gama_i1 + 1: 5.0 gama_i1 - gama_i0: 0.0 duration_time_i: 1.0 demand_i: 120.0 work
720 load_i: 120.0 work load gap_i: 0
721 V_id: 7 li: 8.0 xi: 4.0 bow of i: 0.0 tail of i: 8.0 gama_i0: 0.0 gama_i1: 0.0
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: 8.0 xi: 4.0 bow of i: 0.0 tail of i: 8.0 gama_i0: 1.0 gama_i1: 1.0
725 .0 gama_i1 + 1: 2.0 gama_i1 - gama_i0: 0.0 duration_time_i: 1.0 demand_i: 80.0 work load_i:
726 80.0 work load gap_i: 0
727 V_id: 9 li: 3.0 xi: 26.5 bow of i: 25.0 tail of i: 28.0 gama_i0: 0.0 gama_i1: 2
728 .0 gama_i1 + 1: 3.0 gama_i1 - gama_i0: 2.0 duration_time_i: 3.0 demand_i: 60.0 work
729 load_i: 60.0 work load gap_i: 0
730 V_id: 10 li: 8.0 xi: 4.0 bow of i: 0.0 tail of i: 8.0 gama_i0: 2.0 gama_i1: 3
731 .0 gama_i1 + 1: 4.0 gama_i1 - gama_i0: 1.0 duration_time_i: 2.0 demand_i: 80.0 work load_i:
732 80.0 work load gap_i: 0
733 V_id: 11 li: 5.0 xi: 10.5 bow of i: 8.0 tail of i: 13.0 gama_i0: 0.0 gama_i1: 1
734 : 1.0 gama_i1 + 1: 2.0 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: 4.0 xi: 15.0 bow of i: 13.0 tail of i: 17.0 gama_i0: 0.0 gama_i1: 1
737 : 1.0 gama_i1 + 1: 2.0 gama_i1 - gama_i0: 1.0 duration_time_i: 2.0 demand_i: 120.0 work
738 load_i: 120.0 work load gap_i: 0
739 V_id: 13 li: 6.0 xi: 20.0 bow of i: 17.0 tail of i: 23.0 gama_i0: 0.0 gama_i1: 1
740 : 1.0 gama_i1 + 1: 2.0 gama_i1 - gama_i0: 1.0 duration_time_i: 2.0 demand_i: 140.0 work
741 load_i: 140.0 work load gap_i: 0
742
743 Algorithm finished and the total CPU time: 407 s
744 End
745

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