

unknown

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80 cord_individual_obj[indivial_i,:] = [ 16. 10. 118. 128.]
81 cord_individual_obj[indivial_i,:] = [ 17. 8. 148. 156.]
82 cord_individual_obj[indivial_i,:] = [ 18. 9. 117. 126.]
83 cord_individual_obj[indivial_i,:] = [ 19. 8. 101. 109.]
84 cord_individual_obj[indivial_i,:] = [ 20. 8. 104. 112.]
85 cord_individual_obj[indivial_i,:] = [ 21. 9. 93. 102.]
86 cord_individual_obj[indivial_i,:] = [ 22. 8. 143. 151.]
87 cord_individual_obj[indivial_i,:] = [ 23. 7. 154. 161.]
88 cord_individual_obj[indivial_i,:] = [ 24. 8. 107. 115.]
89
90 min(cord_individual_obj[:,3]) = 56.0
91 historl_G_best_iter[iter, 3] = 56.0
92 Begin iteration:
93
94 iter = 2
95 cord_individual_obj[indivial_i,:] = [ 0. 7. 153. 160.]
96 cord_individual_obj[indivial_i,:] = [ 1. 7. 124. 131.]
97 cord_individual_obj[indivial_i,:] = [ 2. 11. 130. 141.]
98 cord_individual_obj[indivial_i,:] = [ 3. 8. 92. 100.]
99 cord_individual_obj[indivial_i,:] = [ 4. 7. 98. 105.]
100 cord_individual_obj[indivial_i,:] = [ 5. 8. 123. 131.]
101 cord_individual_obj[indivial_i,:] = [ 6. 9. 146. 155.]
102 cord_individual_obj[indivial_i,:] = [ 7. 9. 98. 107.]
103 cord_individual_obj[indivial_i,:] = [ 8. 8. 48. 56.]
104 cord_individual_obj[indivial_i,:] = [ 9. 13. 110. 123.]
105 cord_individual_obj[indivial_i,:] = [10. 7. 65. 72.]
106 cord_individual_obj[indivial_i,:] = [11. 9. 57. 66.]
107 cord_individual_obj[indivial_i,:] = [12. 8. 163. 171.]
108 cord_individual_obj[indivial_i,:] = [13. 6. 187. 193.]
109 cord_individual_obj[indivial_i,:] = [14. 9. 130. 139.]
110 cord_individual_obj[indivial_i,:] = [15. 9. 153. 162.]
111 cord_individual_obj[indivial_i,:] = [16. 9. 148. 157.]
112 cord_individual_obj[indivial_i,:] = [17. 7. 99. 106.]
113 cord_individual_obj[indivial_i,:] = [18. 8. 123. 131.]
114 cord_individual_obj[indivial_i,:] = [19. 8. 90. 98.]
115 cord_individual_obj[indivial_i,:] = [20. 8. 104. 112.]
116 cord_individual_obj[indivial_i,:] = [21. 10. 103. 113.]
117 cord_individual_obj[indivial_i,:] = [22. 8. 61. 69.]
118 cord_individual_obj[indivial_i,:] = [23. 8. 111. 119.]
119 cord_individual_obj[indivial_i,:] = [24. 9. 126. 135.]
120
121 min(cord_individual_obj[:,3]) = 56.0
122 historl_G_best_iter[iter, 3] = 56.0
123 Begin iteration:
124
125 iter = 3
126 cord_individual_obj[indivial_i,:] = [ 0. 9. 76. 85.]
127 cord_individual_obj[indivial_i,:] = [ 1. 8. 70. 78.]
128 cord_individual_obj[indivial_i,:] = [ 2. 7. 100. 107.]
129 cord_individual_obj[indivial_i,:] = [ 3. 9. 76. 85.]
130 cord_individual_obj[indivial_i,:] = [ 4. 7. 60. 67.]
131 cord_individual_obj[indivial_i,:] = [ 5. 10. 106. 116.]
132 cord_individual_obj[indivial_i,:] = [ 6. 8. 130. 138.]
133 cord_individual_obj[indivial_i,:] = [ 7. 10. 100. 110.]
134 cord_individual_obj[indivial_i,:] = [ 8. 7. 99. 106.]
135 cord_individual_obj[indivial_i,:] = [ 9. 8. 80. 88.]
136 cord_individual_obj[indivial_i,:] = [10. 7. 73. 80.]
137 cord_individual_obj[indivial_i,:] = [11. 7. 68. 75.]
138 cord_individual_obj[indivial_i,:] = [12. 8. 91. 99.]
139 cord_individual_obj[indivial_i,:] = [13. 8. 48. 56.]
140 cord_individual_obj[indivial_i,:] = [14. 7. 75. 82.]
141 cord_individual_obj[indivial_i,:] = [15. 7. 74. 81.]
142 cord_individual_obj[indivial_i,:] = [16. 7. 89. 96.]
143 cord_individual_obj[indivial_i,:] = [17. 8. 67. 75.]
144 cord_individual_obj[indivial_i,:] = [18. 9. 87. 96.]
145 cord_individual_obj[indivial_i,:] = [19. 7. 88. 95.]
146 cord_individual_obj[indivial_i,:] = [20. 7. 92. 99.]
147 cord_individual_obj[indivial_i,:] = [21. 9. 104. 113.]
148 cord_individual_obj[indivial_i,:] = [22. 8. 108. 116.]
149 cord_individual_obj[indivial_i,:] = [23. 7. 108. 115.]
150 cord_individual_obj[indivial_i,:] = [24. 8. 110. 118.]
151
152 min(cord_individual_obj[:,3]) = 56.0
153 historl_G_best_iter[iter, 3] = 56.0
154 Begin iteration:
155
156 iter = 4
157 cord_individual_obj[indivial_i,:] = [ 0. 7. 111. 118.]
158 cord_individual_obj[indivial_i,:] = [ 1. 7. 96. 103.]
159 cord_individual_obj[indivial_i,:] = [ 2. 8. 115. 123.]
160 cord_individual_obj[indivial_i,:] = [ 3. 10. 117. 127.]
161 cord_individual_obj[indivial_i,:] = [ 4. 9. 62. 71.]
162 cord_individual_obj[indivial_i,:] = [ 5. 10. 81. 91.]
163 cord_individual_obj[indivial_i,:] = [ 6. 8. 48. 56.]

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164 cord_individual_obj[indivial_i, :] = [ 7.  8. 68. 76.]
165 cord_individual_obj[indivial_i, :] = [ 8.  9. 67. 76.]
166 cord_individual_obj[indivial_i, :] = [ 9.  9. 55. 64.]
167 cord_individual_obj[indivial_i, :] = [10.  7. 62. 69.]
168 cord_individual_obj[indivial_i, :] = [11.  8. 122. 130.]
169 cord_individual_obj[indivial_i, :] = [12.  8. 90. 98.]
170 cord_individual_obj[indivial_i, :] = [13.  8. 99. 107.]
171 cord_individual_obj[indivial_i, :] = [14.  8. 103. 111.]
172 cord_individual_obj[indivial_i, :] = [15.  8. 84. 92.]
173 cord_individual_obj[indivial_i, :] = [16.  9. 96. 105.]
174 cord_individual_obj[indivial_i, :] = [17. 10. 82. 92.]
175 cord_individual_obj[indivial_i, :] = [18.  9. 80. 89.]
176 cord_individual_obj[indivial_i, :] = [19.  7. 99. 106.]
177 cord_individual_obj[indivial_i, :] = [20.  9. 130. 139.]
178 cord_individual_obj[indivial_i, :] = [21. 10. 100. 110.]
179 cord_individual_obj[indivial_i, :] = [22.  9. 97. 106.]
180 cord_individual_obj[indivial_i, :] = [23.  7. 111. 118.]
181 cord_individual_obj[indivial_i, :] = [24. 10. 88. 98.]
182
183 min(cord_individual_obj[:, 3]) = 56.0
184 historl_G_best_iter[iter, 3] = 56.0
185 Begin iteration:
186
187 iter = 5
188 cord_individual_obj[indivial_i, :] = [ 0. 10. 84. 94.]
189 cord_individual_obj[indivial_i, :] = [ 1.  8. 73. 81.]
190 cord_individual_obj[indivial_i, :] = [ 2.  9. 109. 118.]
191 cord_individual_obj[indivial_i, :] = [ 3.  9. 72. 81.]
192 cord_individual_obj[indivial_i, :] = [ 4.  7. 100. 107.]
193 cord_individual_obj[indivial_i, :] = [ 5.  7. 110. 117.]
194 cord_individual_obj[indivial_i, :] = [ 6.  8. 118. 126.]
195 cord_individual_obj[indivial_i, :] = [ 7.  8. 108. 116.]
196 cord_individual_obj[indivial_i, :] = [ 8.  7. 108. 115.]
197 cord_individual_obj[indivial_i, :] = [ 9.  7. 83. 90.]
198 cord_individual_obj[indivial_i, :] = [10.  7. 76. 83.]
199 cord_individual_obj[indivial_i, :] = [11.  7. 61. 68.]
200 cord_individual_obj[indivial_i, :] = [12.  6. 69. 75.]
201 cord_individual_obj[indivial_i, :] = [13.  7. 51. 58.]
202 cord_individual_obj[indivial_i, :] = [14.  8. 98. 106.]
203 cord_individual_obj[indivial_i, :] = [15.  8. 88. 96.]
204 cord_individual_obj[indivial_i, :] = [16.  8. 76. 84.]
205 cord_individual_obj[indivial_i, :] = [17.  9. 55. 64.]
206 cord_individual_obj[indivial_i, :] = [18.  8. 87. 95.]
207 cord_individual_obj[indivial_i, :] = [19.  7. 72. 79.]
208 cord_individual_obj[indivial_i, :] = [20.  8. 48. 56.]
209 cord_individual_obj[indivial_i, :] = [21.  9. 65. 74.]
210 cord_individual_obj[indivial_i, :] = [22.  9. 91. 100.]
211 cord_individual_obj[indivial_i, :] = [23.  7. 81. 88.]
212 cord_individual_obj[indivial_i, :] = [24.  8. 90. 98.]
213
214 min(cord_individual_obj[:, 3]) = 56.0
215 historl_G_best_iter[iter, 3] = 56.0
216 Begin iteration:
217
218 iter = 6
219 cord_individual_obj[indivial_i, :] = [ 0.  8. 73. 81.]
220 cord_individual_obj[indivial_i, :] = [ 1.  7. 59. 66.]
221 cord_individual_obj[indivial_i, :] = [ 2.  8. 111. 119.]
222 cord_individual_obj[indivial_i, :] = [ 3.  7. 104. 111.]
223 cord_individual_obj[indivial_i, :] = [ 4.  8. 98. 106.]
224 cord_individual_obj[indivial_i, :] = [ 5.  7. 115. 122.]
225 cord_individual_obj[indivial_i, :] = [ 6.  8. 48. 56.]
226 cord_individual_obj[indivial_i, :] = [ 7.  9. 115. 124.]
227 cord_individual_obj[indivial_i, :] = [ 8.  7. 127. 134.]
228 cord_individual_obj[indivial_i, :] = [ 9.  8. 85. 93.]
229 cord_individual_obj[indivial_i, :] = [10.  8. 82. 90.]
230 cord_individual_obj[indivial_i, :] = [11.  7. 72. 79.]
231 cord_individual_obj[indivial_i, :] = [12.  8. 88. 96.]
232 cord_individual_obj[indivial_i, :] = [13.  9. 95. 104.]
233 cord_individual_obj[indivial_i, :] = [14.  8. 89. 97.]
234 cord_individual_obj[indivial_i, :] = [15.  9. 107. 116.]
235 cord_individual_obj[indivial_i, :] = [16.  7. 85. 92.]
236 cord_individual_obj[indivial_i, :] = [17.  7. 79. 86.]
237 cord_individual_obj[indivial_i, :] = [18.  7. 74. 81.]
238 cord_individual_obj[indivial_i, :] = [19.  8. 70. 78.]
239 cord_individual_obj[indivial_i, :] = [20.  7. 97. 104.]
240 cord_individual_obj[indivial_i, :] = [21.  9. 103. 112.]
241 cord_individual_obj[indivial_i, :] = [22.  8. 96. 104.]
242 cord_individual_obj[indivial_i, :] = [23.  9. 113. 122.]
243 cord_individual_obj[indivial_i, :] = [24.  9. 102. 111.]
244
245 min(cord_individual_obj[:, 3]) = 56.0
246 historl_G_best_iter[iter, 3] = 56.0
247 Begin iteration:

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248
249 iter = 7
250 cord_individual_obj[indivial_i, :] = [ 0. 8. 95. 103.]
251 cord_individual_obj[indivial_i, :] = [ 1. 8. 100. 108.]
252 cord_individual_obj[indivial_i, :] = [ 2. 8. 150. 158.]
253 cord_individual_obj[indivial_i, :] = [ 3. 8. 86. 94.]
254 cord_individual_obj[indivial_i, :] = [ 4. 7. 98. 105.]
255 cord_individual_obj[indivial_i, :] = [ 5. 8. 95. 103.]
256 cord_individual_obj[indivial_i, :] = [ 6. 8. 126. 134.]
257 cord_individual_obj[indivial_i, :] = [ 7. 12. 69. 81.]
258 cord_individual_obj[indivial_i, :] = [ 8. 8. 48. 56.]
259 cord_individual_obj[indivial_i, :] = [ 9. 8. 77. 85.]
260 cord_individual_obj[indivial_i, :] = [10. 7. 76. 83.]
261 cord_individual_obj[indivial_i, :] = [11. 7. 105. 112.]
262 cord_individual_obj[indivial_i, :] = [12. 8. 127. 135.]
263 cord_individual_obj[indivial_i, :] = [13. 7. 72. 79.]
264 cord_individual_obj[indivial_i, :] = [14. 9. 111. 120.]
265 cord_individual_obj[indivial_i, :] = [15. 6. 59. 65.]
266 cord_individual_obj[indivial_i, :] = [16. 8. 78. 86.]
267 cord_individual_obj[indivial_i, :] = [17. 10. 73. 83.]
268 cord_individual_obj[indivial_i, :] = [18. 10. 106. 116.]
269 cord_individual_obj[indivial_i, :] = [19. 8. 73. 81.]
270 cord_individual_obj[indivial_i, :] = [20. 7. 96. 103.]
271 cord_individual_obj[indivial_i, :] = [21. 8. 69. 77.]
272 cord_individual_obj[indivial_i, :] = [22. 9. 72. 81.]
273 cord_individual_obj[indivial_i, :] = [23. 8. 117. 125.]
274 cord_individual_obj[indivial_i, :] = [24. 9. 89. 98.]
275

276 min(cord_individual_obj[:, 3]) = 56.0
277 historl_G_best_iter[iter, 3] = 56.0
278 Begin iteration:
279
280 iter = 8
281 cord_individual_obj[indivial_i, :] = [ 0. 8. 117. 125.]
282 cord_individual_obj[indivial_i, :] = [ 1. 7. 98. 105.]
283 cord_individual_obj[indivial_i, :] = [ 2. 8. 48. 56.]
284 cord_individual_obj[indivial_i, :] = [ 3. 9. 116. 125.]
285 cord_individual_obj[indivial_i, :] = [ 4. 8. 133. 141.]
286 cord_individual_obj[indivial_i, :] = [ 5. 9. 100. 109.]
287 cord_individual_obj[indivial_i, :] = [ 6. 7. 97. 104.]
288 cord_individual_obj[indivial_i, :] = [ 7. 10. 105. 115.]
289 cord_individual_obj[indivial_i, :] = [ 8. 8. 95. 103.]
290 cord_individual_obj[indivial_i, :] = [ 9. 10. 88. 98.]
291 cord_individual_obj[indivial_i, :] = [10. 7. 67. 74.]
292 cord_individual_obj[indivial_i, :] = [11. 9. 54. 63.]
293 cord_individual_obj[indivial_i, :] = [12. 8. 74. 82.]
294 cord_individual_obj[indivial_i, :] = [13. 9. 126. 135.]
295 cord_individual_obj[indivial_i, :] = [14. 10. 81. 91.]
296 cord_individual_obj[indivial_i, :] = [15. 7. 85. 92.]
297 cord_individual_obj[indivial_i, :] = [16. 9. 89. 98.]
298 cord_individual_obj[indivial_i, :] = [17. 10. 105. 115.]
299 cord_individual_obj[indivial_i, :] = [18. 8. 108. 116.]
300 cord_individual_obj[indivial_i, :] = [19. 8. 104. 112.]
301 cord_individual_obj[indivial_i, :] = [20. 7. 114. 121.]
302 cord_individual_obj[indivial_i, :] = [21. 9. 99. 108.]
303 cord_individual_obj[indivial_i, :] = [22. 9. 66. 75.]
304 cord_individual_obj[indivial_i, :] = [23. 9. 112. 121.]
305 cord_individual_obj[indivial_i, :] = [24. 9. 82. 91.]
306

307 min(cord_individual_obj[:, 3]) = 56.0
308 historl_G_best_iter[iter, 3] = 56.0
309 Begin iteration:
310
311 iter = 9
312 cord_individual_obj[indivial_i, :] = [ 0. 8. 153. 161.]
313 cord_individual_obj[indivial_i, :] = [ 1. 9. 96. 105.]
314 cord_individual_obj[indivial_i, :] = [ 2. 9. 114. 123.]
315 cord_individual_obj[indivial_i, :] = [ 3. 11. 90. 101.]
316 cord_individual_obj[indivial_i, :] = [ 4. 8. 48. 56.]
317 cord_individual_obj[indivial_i, :] = [ 5. 8. 124. 132.]
318 cord_individual_obj[indivial_i, :] = [ 6. 9. 106. 115.]
319 cord_individual_obj[indivial_i, :] = [ 7. 10. 117. 127.]
320 cord_individual_obj[indivial_i, :] = [ 8. 8. 68. 76.]
321 cord_individual_obj[indivial_i, :] = [ 9. 9. 111. 120.]
322 cord_individual_obj[indivial_i, :] = [10. 7. 144. 151.]
323 cord_individual_obj[indivial_i, :] = [11. 8. 97. 105.]
324 cord_individual_obj[indivial_i, :] = [12. 7. 72. 79.]
325 cord_individual_obj[indivial_i, :] = [13. 8. 117. 125.]
326 cord_individual_obj[indivial_i, :] = [14. 9. 101. 110.]
327 cord_individual_obj[indivial_i, :] = [15. 7. 162. 169.]
328 cord_individual_obj[indivial_i, :] = [16. 7. 92. 99.]
329 cord_individual_obj[indivial_i, :] = [17. 10. 106. 116.]
330 cord_individual_obj[indivial_i, :] = [18. 7. 119. 126.]
331 cord_individual_obj[indivial_i, :] = [19. 9. 118. 127.]

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332 cord_individual_obj[indivial_i, :] = [ 20. 9. 145. 154.]
333 cord_individual_obj[indivial_i, :] = [ 21. 9. 109. 118.]
334 cord_individual_obj[indivial_i, :] = [ 22. 9. 106. 115.]
335 cord_individual_obj[indivial_i, :] = [ 23. 6. 185. 191.]
336 cord_individual_obj[indivial_i, :] = [ 24. 8. 108. 116.]
337
338 min(cord_individual_obj[:, 3]) = 56.0
339 histol_G_best_iter[iter, 3] = 56.0
340 Begin iteration:
341
342 iter = 10
343 cord_individual_obj[indivial_i, :] = [ 0. 9. 95. 104.]
344 cord_individual_obj[indivial_i, :] = [ 1. 9. 101. 110.]
345 cord_individual_obj[indivial_i, :] = [ 2. 7. 84. 91.]
346 cord_individual_obj[indivial_i, :] = [ 3. 8. 64. 72.]
347 cord_individual_obj[indivial_i, :] = [ 4. 8. 117. 125.]
348 cord_individual_obj[indivial_i, :] = [ 5. 9. 93. 102.]
349 cord_individual_obj[indivial_i, :] = [ 6. 8. 93. 101.]
350 cord_individual_obj[indivial_i, :] = [ 7. 11. 142. 153.]
351 cord_individual_obj[indivial_i, :] = [ 8. 8. 100. 108.]
352 cord_individual_obj[indivial_i, :] = [ 9. 8. 89. 97.]
353 cord_individual_obj[indivial_i, :] = [ 10. 8. 116. 124.]
354 cord_individual_obj[indivial_i, :] = [ 11. 6. 91. 97.]
355 cord_individual_obj[indivial_i, :] = [ 12. 8. 104. 112.]
356 cord_individual_obj[indivial_i, :] = [ 13. 11. 75. 86.]
357 cord_individual_obj[indivial_i, :] = [ 14. 8. 98. 106.]
358 cord_individual_obj[indivial_i, :] = [ 15. 6. 89. 95.]
359 cord_individual_obj[indivial_i, :] = [ 16. 8. 93. 101.]
360 cord_individual_obj[indivial_i, :] = [ 17. 10. 87. 97.]
361 cord_individual_obj[indivial_i, :] = [ 18. 9. 99. 108.]
362 cord_individual_obj[indivial_i, :] = [ 19. 9. 93. 102.]
363 cord_individual_obj[indivial_i, :] = [ 20. 7. 72. 79.]
364 cord_individual_obj[indivial_i, :] = [ 21. 8. 71. 79.]
365 cord_individual_obj[indivial_i, :] = [ 22. 8. 97. 105.]
366 cord_individual_obj[indivial_i, :] = [ 23. 8. 48. 56.]
367 cord_individual_obj[indivial_i, :] = [ 24. 8. 87. 95.]
368
369 min(cord_individual_obj[:, 3]) = 56.0
370 histol_G_best_iter[iter, 3] = 56.0
371 Begin iteration:
372
373 iter = 11
374 cord_individual_obj[indivial_i, :] = [ 0. 9. 114. 123.]
375 cord_individual_obj[indivial_i, :] = [ 1. 8. 89. 97.]
376 cord_individual_obj[indivial_i, :] = [ 2. 7. 93. 100.]
377 cord_individual_obj[indivial_i, :] = [ 3. 10. 71. 81.]
378 cord_individual_obj[indivial_i, :] = [ 4. 7. 123. 130.]
379 cord_individual_obj[indivial_i, :] = [ 5. 8. 88. 96.]
380 cord_individual_obj[indivial_i, :] = [ 6. 8. 83. 91.]
381 cord_individual_obj[indivial_i, :] = [ 7. 8. 48. 56.]
382 cord_individual_obj[indivial_i, :] = [ 8. 8. 51. 59.]
383 cord_individual_obj[indivial_i, :] = [ 9. 7. 90. 97.]
384 cord_individual_obj[indivial_i, :] = [ 10. 7. 88. 95.]
385 cord_individual_obj[indivial_i, :] = [ 11. 7. 87. 94.]
386 cord_individual_obj[indivial_i, :] = [ 12. 7. 126. 133.]
387 cord_individual_obj[indivial_i, :] = [ 13. 9. 103. 112.]
388 cord_individual_obj[indivial_i, :] = [ 14. 9. 86. 95.]
389 cord_individual_obj[indivial_i, :] = [ 15. 7. 83. 90.]
390 cord_individual_obj[indivial_i, :] = [ 16. 8. 80. 88.]
391 cord_individual_obj[indivial_i, :] = [ 17. 8. 90. 98.]
392 cord_individual_obj[indivial_i, :] = [ 18. 9. 62. 71.]
393 cord_individual_obj[indivial_i, :] = [ 19. 7. 132. 139.]
394 cord_individual_obj[indivial_i, :] = [ 20. 8. 98. 106.]
395 cord_individual_obj[indivial_i, :] = [ 21. 9. 92. 101.]
396 cord_individual_obj[indivial_i, :] = [ 22. 8. 109. 117.]
397 cord_individual_obj[indivial_i, :] = [ 23. 7. 50. 57.]
398 cord_individual_obj[indivial_i, :] = [ 24. 8. 116. 124.]
399
400 min(cord_individual_obj[:, 3]) = 56.0
401 histol_G_best_iter[iter, 3] = 56.0
402 Begin iteration:
403
404 iter = 12
405 cord_individual_obj[indivial_i, :] = [ 0. 9. 110. 119.]
406 cord_individual_obj[indivial_i, :] = [ 1. 8. 74. 82.]
407 cord_individual_obj[indivial_i, :] = [ 2. 7. 72. 79.]
408 cord_individual_obj[indivial_i, :] = [ 3. 8. 74. 82.]
409 cord_individual_obj[indivial_i, :] = [ 4. 7. 93. 100.]
410 cord_individual_obj[indivial_i, :] = [ 5. 7. 100. 107.]
411 cord_individual_obj[indivial_i, :] = [ 6. 7. 153. 160.]
412 cord_individual_obj[indivial_i, :] = [ 7. 10. 108. 118.]
413 cord_individual_obj[indivial_i, :] = [ 8. 8. 94. 102.]
414 cord_individual_obj[indivial_i, :] = [ 9. 8. 72. 80.]
415 cord_individual_obj[indivial_i, :] = [ 10. 7. 93. 100.]

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416 cord_individual_obj[indivial_i,:] = [11. 8. 72. 80.]
417 cord_individual_obj[indivial_i,:] = [12. 8. 82. 90.]
418 cord_individual_obj[indivial_i,:] = [13. 10. 78. 88.]
419 cord_individual_obj[indivial_i,:] = [14. 7. 86. 93.]
420 cord_individual_obj[indivial_i,:] = [15. 8. 101. 109.]
421 cord_individual_obj[indivial_i,:] = [16. 9. 73. 82.]
422 cord_individual_obj[indivial_i,:] = [17. 8. 77. 85.]
423 cord_individual_obj[indivial_i,:] = [18. 8. 75. 83.]
424 cord_individual_obj[indivial_i,:] = [19. 8. 48. 56.]
425 cord_individual_obj[indivial_i,:] = [20. 7. 113. 120.]
426 cord_individual_obj[indivial_i,:] = [21. 9. 106. 115.]
427 cord_individual_obj[indivial_i,:] = [22. 9. 102. 111.]
428 cord_individual_obj[indivial_i,:] = [23. 7. 79. 86.]
429 cord_individual_obj[indivial_i,:] = [24. 8. 84. 92.]
430
431 min(cord_individual_obj[:,3]) = 56.0
432 histol_G_best_iter[iter,3] = 56.0
433 Begin iteration:
434
435 iter = 13
436 cord_individual_obj[indivial_i,:] = [ 0. 8. 152. 160.]
437 cord_individual_obj[indivial_i,:] = [ 1. 7. 95. 102.]
438 cord_individual_obj[indivial_i,:] = [ 2. 8. 94. 102.]
439 cord_individual_obj[indivial_i,:] = [ 3. 9. 67. 76.]
440 cord_individual_obj[indivial_i,:] = [ 4. 7. 79. 86.]
441 cord_individual_obj[indivial_i,:] = [ 5. 8. 134. 142.]
442 cord_individual_obj[indivial_i,:] = [ 6. 8. 48. 56.]
443 cord_individual_obj[indivial_i,:] = [ 7. 9. 98. 107.]
444 cord_individual_obj[indivial_i,:] = [ 8. 7. 113. 120.]
445 cord_individual_obj[indivial_i,:] = [ 9. 9. 193. 202.]
446 cord_individual_obj[indivial_i,:] = [10. 7. 65. 72.]
447 cord_individual_obj[indivial_i,:] = [11. 8. 50. 58.]
448 cord_individual_obj[indivial_i,:] = [12. 7. 107. 114.]
449 cord_individual_obj[indivial_i,:] = [13. 8. 128. 136.]
450 cord_individual_obj[indivial_i,:] = [14. 10. 104. 114.]
451 cord_individual_obj[indivial_i,:] = [15. 6. 159. 165.]
452 cord_individual_obj[indivial_i,:] = [16. 7. 68. 75.]
453 cord_individual_obj[indivial_i,:] = [17. 8. 139. 147.]
454 cord_individual_obj[indivial_i,:] = [18. 9. 103. 112.]
455 cord_individual_obj[indivial_i,:] = [19. 7. 91. 98.]
456 cord_individual_obj[indivial_i,:] = [20. 7. 167. 174.]
457 cord_individual_obj[indivial_i,:] = [21. 9. 119. 128.]
458 cord_individual_obj[indivial_i,:] = [22. 8. 136. 144.]
459 cord_individual_obj[indivial_i,:] = [23. 8. 81. 89.]
460 cord_individual_obj[indivial_i,:] = [24. 9. 85. 94.]
461
462 min(cord_individual_obj[:,3]) = 56.0
463 histol_G_best_iter[iter,3] = 56.0
464 Begin iteration:
465
466 iter = 14
467 cord_individual_obj[indivial_i,:] = [ 0. 8. 94. 102.]
468 cord_individual_obj[indivial_i,:] = [ 1. 7. 103. 110.]
469 cord_individual_obj[indivial_i,:] = [ 2. 9. 131. 140.]
470 cord_individual_obj[indivial_i,:] = [ 3. 9. 168. 177.]
471 cord_individual_obj[indivial_i,:] = [ 4. 7. 71. 78.]
472 cord_individual_obj[indivial_i,:] = [ 5. 9. 87. 96.]
473 cord_individual_obj[indivial_i,:] = [ 6. 8. 112. 120.]
474 cord_individual_obj[indivial_i,:] = [ 7. 9. 59. 68.]
475 cord_individual_obj[indivial_i,:] = [ 8. 8. 113. 121.]
476 cord_individual_obj[indivial_i,:] = [ 9. 8. 48. 56.]
477 cord_individual_obj[indivial_i,:] = [10. 7. 78. 85.]
478 cord_individual_obj[indivial_i,:] = [11. 8. 61. 69.]
479 cord_individual_obj[indivial_i,:] = [12. 9. 117. 126.]
480 cord_individual_obj[indivial_i,:] = [13. 8. 97. 105.]
481 cord_individual_obj[indivial_i,:] = [14. 11. 82. 93.]
482 cord_individual_obj[indivial_i,:] = [15. 7. 108. 115.]
483 cord_individual_obj[indivial_i,:] = [16. 7. 56. 63.]
484 cord_individual_obj[indivial_i,:] = [17. 10. 122. 132.]
485 cord_individual_obj[indivial_i,:] = [18. 7. 110. 117.]
486 cord_individual_obj[indivial_i,:] = [19. 9. 88. 97.]
487 cord_individual_obj[indivial_i,:] = [20. 10. 111. 121.]
488 cord_individual_obj[indivial_i,:] = [21. 9. 85. 94.]
489 cord_individual_obj[indivial_i,:] = [22. 9. 79. 88.]
490 cord_individual_obj[indivial_i,:] = [23. 8. 136. 144.]
491 cord_individual_obj[indivial_i,:] = [24. 10. 68. 78.]
492
493 min(cord_individual_obj[:,3]) = 56.0
494 histol_G_best_iter[iter,3] = 56.0
495 Begin iteration:
496
497 iter = 15
498 cord_individual_obj[indivial_i,:] = [ 0. 9. 101. 110.]
499 cord_individual_obj[indivial_i,:] = [ 1. 8. 92. 100.]

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500 cord_individual_obj[indivial_i,:] = [ 2. 8. 95. 103.]
501 cord_individual_obj[indivial_i,:] = [ 3. 8. 48. 56.]
502 cord_individual_obj[indivial_i,:] = [ 4. 9. 94. 103.]
503 cord_individual_obj[indivial_i,:] = [ 5. 7. 93. 100.]
504 cord_individual_obj[indivial_i,:] = [ 6. 8. 77. 85.]
505 cord_individual_obj[indivial_i,:] = [ 7. 8. 92. 100.]
506 cord_individual_obj[indivial_i,:] = [ 8. 8. 73. 81.]
507 cord_individual_obj[indivial_i,:] = [ 9. 8. 70. 78.]
508 cord_individual_obj[indivial_i,:] = [ 10. 8. 93. 101.]
509 cord_individual_obj[indivial_i,:] = [ 11. 8. 89. 97.]
510 cord_individual_obj[indivial_i,:] = [ 12. 7. 96. 103.]
511 cord_individual_obj[indivial_i,:] = [ 13. 11. 107. 118.]
512 cord_individual_obj[indivial_i,:] = [ 14. 9. 96. 105.]
513 cord_individual_obj[indivial_i,:] = [ 15. 6. 110. 116.]
514 cord_individual_obj[indivial_i,:] = [ 16. 8. 95. 103.]
515 cord_individual_obj[indivial_i,:] = [ 17. 8. 62. 70.]
516 cord_individual_obj[indivial_i,:] = [ 18. 8. 108. 116.]
517 cord_individual_obj[indivial_i,:] = [ 19. 8. 79. 87.]
518 cord_individual_obj[indivial_i,:] = [ 20. 8. 117. 125.]
519 cord_individual_obj[indivial_i,:] = [ 21. 10. 108. 118.]
520 cord_individual_obj[indivial_i,:] = [ 22. 9. 135. 144.]
521 cord_individual_obj[indivial_i,:] = [ 23. 8. 95. 103.]
522 cord_individual_obj[indivial_i,:] = [ 24. 8. 82. 90.]
523
524 min(cord_individual_obj[:, 3]) = 56.0
525 histort_G_best_iter[iter, 3] = 56.0
526 Begin iteration:
527
528 iter = 16
529 cord_individual_obj[indivial_i,:] = [ 0. 7. 98. 105.]
530 cord_individual_obj[indivial_i,:] = [ 1. 8. 59. 67.]
531 cord_individual_obj[indivial_i,:] = [ 2. 8. 149. 157.]
532 cord_individual_obj[indivial_i,:] = [ 3. 9. 80. 89.]
533 cord_individual_obj[indivial_i,:] = [ 4. 8. 83. 91.]
534 cord_individual_obj[indivial_i,:] = [ 5. 9. 88. 97.]
535 cord_individual_obj[indivial_i,:] = [ 6. 8. 89. 97.]
536 cord_individual_obj[indivial_i,:] = [ 7. 9. 134. 143.]
537 cord_individual_obj[indivial_i,:] = [ 8. 8. 106. 114.]
538 cord_individual_obj[indivial_i,:] = [ 9. 9. 77. 86.]
539 cord_individual_obj[indivial_i,:] = [ 10. 7. 109. 116.]
540 cord_individual_obj[indivial_i,:] = [ 11. 9. 133. 142.]
541 cord_individual_obj[indivial_i,:] = [ 12. 8. 123. 131.]
542 cord_individual_obj[indivial_i,:] = [ 13. 10. 113. 123.]
543 cord_individual_obj[indivial_i,:] = [ 14. 8. 70. 78.]
544 cord_individual_obj[indivial_i,:] = [ 15. 9. 110. 119.]
545 cord_individual_obj[indivial_i,:] = [ 16. 8. 101. 109.]
546 cord_individual_obj[indivial_i,:] = [ 17. 8. 72. 80.]
547 cord_individual_obj[indivial_i,:] = [ 18. 10. 133. 143.]
548 cord_individual_obj[indivial_i,:] = [ 19. 7. 145. 152.]
549 cord_individual_obj[indivial_i,:] = [ 20. 8. 82. 90.]
550 cord_individual_obj[indivial_i,:] = [ 21. 10. 163. 173.]
551 cord_individual_obj[indivial_i,:] = [ 22. 8. 48. 56.]
552 cord_individual_obj[indivial_i,:] = [ 23. 8. 126. 134.]
553 cord_individual_obj[indivial_i,:] = [ 24. 9. 111. 120.]
554
555 min(cord_individual_obj[:, 3]) = 56.0
556 histort_G_best_iter[iter, 3] = 56.0
557 Begin iteration:
558
559 iter = 17
560 cord_individual_obj[indivial_i,:] = [ 0. 9. 121. 130.]
561 cord_individual_obj[indivial_i,:] = [ 1. 7. 90. 97.]
562 cord_individual_obj[indivial_i,:] = [ 2. 10. 108. 118.]
563 cord_individual_obj[indivial_i,:] = [ 3. 10. 148. 158.]
564 cord_individual_obj[indivial_i,:] = [ 4. 7. 203. 210.]
565 cord_individual_obj[indivial_i,:] = [ 5. 7. 92. 99.]
566 cord_individual_obj[indivial_i,:] = [ 6. 7. 113. 120.]
567 cord_individual_obj[indivial_i,:] = [ 7. 10. 88. 98.]
568 cord_individual_obj[indivial_i,:] = [ 8. 9. 142. 151.]
569 cord_individual_obj[indivial_i,:] = [ 9. 9. 100. 109.]
570 cord_individual_obj[indivial_i,:] = [ 10. 8. 87. 95.]
571 cord_individual_obj[indivial_i,:] = [ 11. 7. 124. 131.]
572 cord_individual_obj[indivial_i,:] = [ 12. 9. 85. 94.]
573 cord_individual_obj[indivial_i,:] = [ 13. 9. 90. 99.]
574 cord_individual_obj[indivial_i,:] = [ 14. 9. 148. 157.]
575 cord_individual_obj[indivial_i,:] = [ 15. 7. 104. 111.]
576 cord_individual_obj[indivial_i,:] = [ 16. 9. 75. 84.]
577 cord_individual_obj[indivial_i,:] = [ 17. 7. 102. 109.]
578 cord_individual_obj[indivial_i,:] = [ 18. 9. 100. 109.]
579 cord_individual_obj[indivial_i,:] = [ 19. 8. 142. 150.]
580 cord_individual_obj[indivial_i,:] = [ 20. 8. 71. 79.]
581 cord_individual_obj[indivial_i,:] = [ 21. 8. 48. 56.]
582 cord_individual_obj[indivial_i,:] = [ 22. 9. 74. 83.]
583 cord_individual_obj[indivial_i,:] = [ 23. 8. 125. 133.]

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584     cord_individual_obj[indivial_i, :] = [ 24. 10. 100. 110.]
585
586     min(cord_individual_obj[:, 3]) = 56.0
587     historl_G_best_iter[iter, 3] = 56.0
588 Begin iteration:
589
590 iter = 18
591     cord_individual_obj[indivial_i, :] = [ 0. 8. 110. 118.]
592     cord_individual_obj[indivial_i, :] = [ 1. 9. 77. 86.]
593     cord_individual_obj[indivial_i, :] = [ 2. 10. 110. 120.]
594     cord_individual_obj[indivial_i, :] = [ 3. 9. 100. 109.]
595     cord_individual_obj[indivial_i, :] = [ 4. 8. 48. 56.]
596     cord_individual_obj[indivial_i, :] = [ 5. 9. 77. 86.]
597     cord_individual_obj[indivial_i, :] = [ 6. 8. 93. 101.]
598     cord_individual_obj[indivial_i, :] = [ 7. 8. 76. 84.]
599     cord_individual_obj[indivial_i, :] = [ 8. 8. 93. 101.]
600     cord_individual_obj[indivial_i, :] = [ 9. 9. 87. 96.]
601     cord_individual_obj[indivial_i, :] = [10. 8. 70. 78.]
602     cord_individual_obj[indivial_i, :] = [11. 9. 98. 107.]
603     cord_individual_obj[indivial_i, :] = [12. 8. 85. 93.]
604     cord_individual_obj[indivial_i, :] = [13. 6. 107. 113.]
605     cord_individual_obj[indivial_i, :] = [14. 10. 77. 87.]
606     cord_individual_obj[indivial_i, :] = [15. 7. 126. 133.]
607     cord_individual_obj[indivial_i, :] = [16. 7. 81. 88.]
608     cord_individual_obj[indivial_i, :] = [17. 9. 93. 102.]
609     cord_individual_obj[indivial_i, :] = [18. 10. 138. 148.]
610     cord_individual_obj[indivial_i, :] = [19. 7. 113. 120.]
611     cord_individual_obj[indivial_i, :] = [20. 7. 155. 162.]
612     cord_individual_obj[indivial_i, :] = [21. 8. 89. 97.]
613     cord_individual_obj[indivial_i, :] = [22. 9. 69. 78.]
614     cord_individual_obj[indivial_i, :] = [23. 7. 107. 114.]
615     cord_individual_obj[indivial_i, :] = [24. 10. 156. 166.]
616
617     min(cord_individual_obj[:, 3]) = 56.0
618     historl_G_best_iter[iter, 3] = 56.0
619 Begin iteration:
620
621 iter = 19
622     cord_individual_obj[indivial_i, :] = [ 0. 9. 98. 107.]
623     cord_individual_obj[indivial_i, :] = [ 1. 8. 80. 88.]
624     cord_individual_obj[indivial_i, :] = [ 2. 8. 97. 105.]
625     cord_individual_obj[indivial_i, :] = [ 3. 9. 69. 78.]
626     cord_individual_obj[indivial_i, :] = [ 4. 7. 98. 105.]
627     cord_individual_obj[indivial_i, :] = [ 5. 8. 116. 124.]
628     cord_individual_obj[indivial_i, :] = [ 6. 10. 102. 112.]
629     cord_individual_obj[indivial_i, :] = [ 7. 10. 73. 83.]
630     cord_individual_obj[indivial_i, :] = [ 8. 8. 93. 101.]
631     cord_individual_obj[indivial_i, :] = [ 9. 8. 74. 82.]
632     cord_individual_obj[indivial_i, :] = [10. 7. 73. 80.]
633     cord_individual_obj[indivial_i, :] = [11. 8. 109. 117.]
634     cord_individual_obj[indivial_i, :] = [12. 7. 102. 109.]
635     cord_individual_obj[indivial_i, :] = [13. 8. 69. 77.]
636     cord_individual_obj[indivial_i, :] = [14. 8. 84. 92.]
637     cord_individual_obj[indivial_i, :] = [15. 7. 59. 66.]
638     cord_individual_obj[indivial_i, :] = [16. 9. 104. 113.]
639     cord_individual_obj[indivial_i, :] = [17. 9. 70. 79.]
640     cord_individual_obj[indivial_i, :] = [18. 9. 90. 99.]
641     cord_individual_obj[indivial_i, :] = [19. 7. 91. 98.]
642     cord_individual_obj[indivial_i, :] = [20. 7. 100. 107.]
643     cord_individual_obj[indivial_i, :] = [21. 8. 85. 93.]
644     cord_individual_obj[indivial_i, :] = [22. 8. 98. 106.]
645     cord_individual_obj[indivial_i, :] = [23. 7. 111. 118.]
646     cord_individual_obj[indivial_i, :] = [24. 8. 48. 56.]
647
648     min(cord_individual_obj[:, 3]) = 56.0
649     historl_G_best_iter[iter, 3] = 56.0
650 Begin iteration:
651
652 iter = 20
653     cord_individual_obj[indivial_i, :] = [ 0. 7. 88. 95.]
654     cord_individual_obj[indivial_i, :] = [ 1. 7. 85. 92.]
655     cord_individual_obj[indivial_i, :] = [ 2. 8. 105. 113.]
656     cord_individual_obj[indivial_i, :] = [ 3. 8. 70. 78.]
657     cord_individual_obj[indivial_i, :] = [ 4. 7. 88. 95.]
658     cord_individual_obj[indivial_i, :] = [ 5. 8. 48. 56.]
659     cord_individual_obj[indivial_i, :] = [ 6. 8. 117. 125.]
660     cord_individual_obj[indivial_i, :] = [ 7. 9. 108. 117.]
661     cord_individual_obj[indivial_i, :] = [ 8. 8. 109. 117.]
662     cord_individual_obj[indivial_i, :] = [ 9. 8. 145. 153.]
663     cord_individual_obj[indivial_i, :] = [10. 7. 89. 96.]
664     cord_individual_obj[indivial_i, :] = [11. 7. 74. 81.]
665     cord_individual_obj[indivial_i, :] = [12. 7. 81. 88.]
666     cord_individual_obj[indivial_i, :] = [13. 8. 78. 86.]
667     cord_individual_obj[indivial_i, :] = [14. 9. 80. 89.]

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668 cord_individual_obj[indivial_i,:] = [ 15. 7. 119. 126.]
669 cord_individual_obj[indivial_i,:] = [16. 8. 91. 99.]
670 cord_individual_obj[indivial_i,:] = [17. 10. 67. 77.]
671 cord_individual_obj[indivial_i,:] = [ 18. 10. 107. 117.]
672 cord_individual_obj[indivial_i,:] = [ 19. 7. 94. 101.]
673 cord_individual_obj[indivial_i,:] = [ 20. 8. 101. 109.]
674 cord_individual_obj[indivial_i,:] = [21. 11. 86. 97.]
675 cord_individual_obj[indivial_i,:] = [ 22. 9. 106. 115.]
676 cord_individual_obj[indivial_i,:] = [ 23. 8. 115. 123.]
677 cord_individual_obj[indivial_i,:] = [ 24. 8. 113. 121.]
678
679 min(cord_individual_obj[:, 3]) = 56.0
680 historl_G_best_iter[iter, 3] = 56.0
681 Iteration calculate over
682
683
684
685
686 All item are in Bin and:
687 Bin area = 1080
688 Real_area = 193.0
689 Proportion_of_area = 0.1787037037037037
690 BEST_CHROM =
691 berth: [ 3.5 6. 14. 3.5 13. 9. 21.5 1.5 19. 8.5 25.5 6. 14. 28. ]
692 time: [0. 3. 5. 6. 3. 0. 0. 2. 2. 5. 4. 2. 0. 0.]
693 num_QC: [5. 4. 4. 2. 5. 3. 5. 2. 1. 2. 2. 3. 2. 1.]
694 Objective function values and some other indicators:
695 Obj0 = 8.00 Obj1 = 48.00 Obj0 + Obj1 = 56.00
696 Total movement of crane: 8.00
697 Total waiting time in berth position: 32.00
698 Total index of q during berthing: 738.00
699 Specific arrangement for each vessel:
700 V_id: 0 li: 7.0 xi: 3.5 bow of i: 0.0 tail of i: 7.0 gama_i0: 0.0 gama_i1: 1.0
701 160.0 work load gap_i: 0 gama_i1 + 1: 2.0 gama_i1 - gama_i0: 1.0 duration_time_i: 2.0 demand_i: 160.0 work load_i:
702 V_id: 1 li: 6.0 xi: 6.0 bow of i: 3.0 tail of i: 9.0 gama_i0: 3.0 gama_i1: 3.0
703 80.0 work load gap_i: 0 gama_i1 + 1: 4.0 gama_i1 - gama_i0: 0.0 duration_time_i: 1.0 demand_i: 80.0 work load_i:
704 V_id: 2 li: 8.0 xi: 14.0 bow of i: 10.0 tail of i: 18.0 gama_i0: 5.0 gama_i1: 6
705 .0 load_i: 140.0 work load gap_i: 0 gama_i1 + 1: 7.0 gama_i1 - gama_i0: 1.0 duration_time_i: 2.0 demand_i: 140.0 work
706 V_id: 3 li: 7.0 xi: 3.5 bow of i: 0.0 tail of i: 7.0 gama_i0: 6.0 gama_i1: 8.0
707 120.0 work load gap_i: 0 gama_i1 + 1: 9.0 gama_i1 - gama_i0: 2.0 duration_time_i: 3.0 demand_i: 120.0 work load_i:
708 V_id: 4 li: 8.0 xi: 13.0 bow of i: 9.0 tail of i: 17.0 gama_i0: 3.0 gama_i1: 4
709 .0 load_i: 160.0 work load gap_i: 0 gama_i1 + 1: 5.0 gama_i1 - gama_i0: 1.0 duration_time_i: 2.0 demand_i: 160.0 work
710 V_id: 5 li: 4.0 xi: 9.0 bow of i: 7.0 tail of i: 11.0 gama_i0: 0.0 gama_i1: 1.0
711 100.0 work load gap_i: 0 gama_i1 + 1: 2.0 gama_i1 - gama_i0: 1.0 duration_time_i: 2.0 demand_i: 100.0 work load_i:
712 V_id: 6 li: 9.0 xi: 21.5 bow of i: 17.0 tail of i: 26.0 gama_i0: 0.0 gama_i1: 1
713 .0 load_i: 140.0 work load gap_i: 0 gama_i1 + 1: 2.0 gama_i1 - gama_i0: 1.0 duration_time_i: 2.0 demand_i: 140.0 work
714 V_id: 7 li: 3.0 xi: 1.5 bow of i: 0.0 tail of i: 3.0 gama_i0: 2.0 gama_i1: 5.0
715 160.0 work load gap_i: 0 gama_i1 + 1: 6.0 gama_i1 - gama_i0: 3.0 duration_time_i: 4.0 demand_i: 160.0 work load_i:
716 V_id: 8 li: 4.0 xi: 19.0 bow of i: 17.0 tail of i: 21.0 gama_i0: 2.0 gama_i1: 4
717 .0 load_i: 60.0 work load gap_i: 0 gama_i1 + 1: 5.0 gama_i1 - gama_i0: 2.0 duration_time_i: 3.0 demand_i: 60.0 work
718 V_id: 9 li: 3.0 xi: 8.5 bow of i: 7.0 tail of i: 10.0 gama_i0: 5.0 gama_i1: 6.0
719 80.0 work load gap_i: 0 gama_i1 + 1: 7.0 gama_i1 - gama_i0: 1.0 duration_time_i: 2.0 demand_i: 80.0 work load_i:
720 V_id: 10 li: 9.0 xi: 25.5 bow of i: 21.0 tail of i: 30.0 gama_i0: 4.0 gama_i1: 1
721 .6 load_i: 120.0 work load gap_i: 0 gama_i1 + 1: 7.0 gama_i1 - gama_i0: 2.0 duration_time_i: 3.0 demand_i: 120.0 work
722 V_id: 11 li: 6.0 xi: 6.0 bow of i: 3.0 tail of i: 9.0 gama_i0: 2.0 gama_i1: 2.0
723 60.0 work load gap_i: 0 gama_i1 + 1: 3.0 gama_i1 - gama_i0: 0.0 duration_time_i: 1.0 demand_i: 60.0 work load_i:
724 V_id: 12 li: 6.0 xi: 14.0 bow of i: 11.0 tail of i: 17.0 gama_i0: 0.0 gama_i1: 1
725 .2 load_i: 100.0 work load gap_i: 0 gama_i1 + 1: 3.0 gama_i1 - gama_i0: 2.0 duration_time_i: 3.0 demand_i: 100.0 work
726 V_id: 13 li: 4.0 xi: 28.0 bow of i: 26.0 tail of i: 30.0 gama_i0: 0.0 gama_i1: 1
727 .3 load_i: 80.0 work load gap_i: 0 gama_i1 + 1: 4.0 gama_i1 - gama_i0: 3.0 duration_time_i: 4.0 demand_i: 80.0 work
728
729 Algorithm finished and the total CPU time: 375 s
730 End
731

```