

unknown

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80 cord_individual_obj[indivial_i,:] = [ 16. 5. 135. 140.]
81 cord_individual_obj[indivial_i,:] = [ 17. 6. 120. 126.]
82 cord_individual_obj[indivial_i,:] = [18. 6. 83. 89.]
83 cord_individual_obj[indivial_i,:] = [ 19. 8. 128. 136.]
84 cord_individual_obj[indivial_i,:] = [ 20. 6. 130. 136.]
85 cord_individual_obj[indivial_i,:] = [21. 9. 66. 75.]
86 cord_individual_obj[indivial_i,:] = [ 22. 7. 161. 168.]
87 cord_individual_obj[indivial_i,:] = [ 23. 5. 114. 119.]
88 cord_individual_obj[indivial_i,:] = [24. 7. 64. 71.]
89
90 min(cord_individual_obj[:,3]) = 58.0
91 historl_G_best_iter[iter, 3] = 58.0
92 Begin iteration:
93
94 iter = 2
95 cord_individual_obj[indivial_i,:] = [ 0. 7. 51. 58.]
96 cord_individual_obj[indivial_i,:] = [ 1. 7. 85. 92.]
97 cord_individual_obj[indivial_i,:] = [ 2. 11. 100. 111.]
98 cord_individual_obj[indivial_i,:] = [ 3. 7. 162. 169.]
99 cord_individual_obj[indivial_i,:] = [ 4. 8. 196. 204.]
100 cord_individual_obj[indivial_i,:] = [ 5. 6. 107. 113.]
101 cord_individual_obj[indivial_i,:] = [ 6. 8. 107. 115.]
102 cord_individual_obj[indivial_i,:] = [ 7. 6. 157. 163.]
103 cord_individual_obj[indivial_i,:] = [ 8. 7. 95. 102.]
104 cord_individual_obj[indivial_i,:] = [ 9. 7. 76. 83.]
105 cord_individual_obj[indivial_i,:] = [ 10. 9. 122. 131.]
106 cord_individual_obj[indivial_i,:] = [ 11. 7. 112. 119.]
107 cord_individual_obj[indivial_i,:] = [ 12. 5. 84. 89.]
108 cord_individual_obj[indivial_i,:] = [ 13. 7. 51. 58.]
109 cord_individual_obj[indivial_i,:] = [ 14. 6. 80. 86.]
110 cord_individual_obj[indivial_i,:] = [ 15. 8. 89. 97.]
111 cord_individual_obj[indivial_i,:] = [ 16. 7. 101. 108.]
112 cord_individual_obj[indivial_i,:] = [ 17. 7. 84. 91.]
113 cord_individual_obj[indivial_i,:] = [ 18. 4. 141. 145.]
114 cord_individual_obj[indivial_i,:] = [ 19. 5. 132. 137.]
115 cord_individual_obj[indivial_i,:] = [ 20. 5. 57. 62.]
116 cord_individual_obj[indivial_i,:] = [ 21. 5. 155. 160.]
117 cord_individual_obj[indivial_i,:] = [ 22. 8. 100. 108.]
118 cord_individual_obj[indivial_i,:] = [ 23. 7. 113. 120.]
119 cord_individual_obj[indivial_i,:] = [ 24. 6. 106. 112.]
120
121 min(cord_individual_obj[:,3]) = 58.0
122 historl_G_best_iter[iter, 3] = 58.0
123 Begin iteration:
124
125 iter = 3
126 cord_individual_obj[indivial_i,:] = [ 0. 7. 97. 104.]
127 cord_individual_obj[indivial_i,:] = [ 1. 8. 98. 106.]
128 cord_individual_obj[indivial_i,:] = [ 2. 7. 89. 96.]
129 cord_individual_obj[indivial_i,:] = [ 3. 8. 152. 160.]
130 cord_individual_obj[indivial_i,:] = [ 4. 7. 51. 58.]
131 cord_individual_obj[indivial_i,:] = [ 5. 8. 107. 115.]
132 cord_individual_obj[indivial_i,:] = [ 6. 7. 101. 108.]
133 cord_individual_obj[indivial_i,:] = [ 7. 8. 118. 126.]
134 cord_individual_obj[indivial_i,:] = [ 8. 8. 151. 159.]
135 cord_individual_obj[indivial_i,:] = [ 9. 8. 137. 145.]
136 cord_individual_obj[indivial_i,:] = [ 10. 7. 118. 125.]
137 cord_individual_obj[indivial_i,:] = [ 11. 8. 167. 175.]
138 cord_individual_obj[indivial_i,:] = [ 12. 6. 147. 153.]
139 cord_individual_obj[indivial_i,:] = [ 13. 9. 101. 110.]
140 cord_individual_obj[indivial_i,:] = [ 14. 8. 101. 109.]
141 cord_individual_obj[indivial_i,:] = [ 15. 9. 167. 176.]
142 cord_individual_obj[indivial_i,:] = [ 16. 7. 127. 134.]
143 cord_individual_obj[indivial_i,:] = [ 17. 8. 95. 103.]
144 cord_individual_obj[indivial_i,:] = [ 18. 8. 80. 88.]
145 cord_individual_obj[indivial_i,:] = [ 19. 6. 88. 94.]
146 cord_individual_obj[indivial_i,:] = [ 20. 6. 118. 124.]
147 cord_individual_obj[indivial_i,:] = [ 21. 9. 133. 142.]
148 cord_individual_obj[indivial_i,:] = [ 22. 9. 112. 121.]
149 cord_individual_obj[indivial_i,:] = [ 23. 6. 104. 110.]
150 cord_individual_obj[indivial_i,:] = [ 24. 8. 115. 123.]
151
152 min(cord_individual_obj[:,3]) = 58.0
153 historl_G_best_iter[iter, 3] = 58.0
154 Begin iteration:
155
156 iter = 4
157 cord_individual_obj[indivial_i,:] = [ 0. 7. 97. 104.]
158 cord_individual_obj[indivial_i,:] = [ 1. 6. 93. 99.]
159 cord_individual_obj[indivial_i,:] = [ 2. 7. 105. 112.]
160 cord_individual_obj[indivial_i,:] = [ 3. 6. 154. 160.]
161 cord_individual_obj[indivial_i,:] = [ 4. 7. 185. 192.]
162 cord_individual_obj[indivial_i,:] = [ 5. 6. 126. 132.]
163 cord_individual_obj[indivial_i,:] = [ 6. 7. 109. 116.]

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164 cord_individual_obj[indivial_i,:] = [ 7. 6. 186. 192.]
165 cord_individual_obj[indivial_i,:] = [ 8. 8. 83. 91.]
166 cord_individual_obj[indivial_i,:] = [ 9. 7. 58. 65.]
167 cord_individual_obj[indivial_i,:] = [10. 6. 87. 93.]
168 cord_individual_obj[indivial_i,:] = [11. 8. 106. 114.]
169 cord_individual_obj[indivial_i,:] = [12. 7. 127. 134.]
170 cord_individual_obj[indivial_i,:] = [13. 7. 109. 116.]
171 cord_individual_obj[indivial_i,:] = [14. 8. 96. 104.]
172 cord_individual_obj[indivial_i,:] = [15. 7. 51. 58.]
173 cord_individual_obj[indivial_i,:] = [16. 10. 105. 115.]
174 cord_individual_obj[indivial_i,:] = [17. 8. 180. 188.]
175 cord_individual_obj[indivial_i,:] = [18. 6. 88. 94.]
176 cord_individual_obj[indivial_i,:] = [19. 7. 61. 68.]
177 cord_individual_obj[indivial_i,:] = [20. 5. 79. 84.]
178 cord_individual_obj[indivial_i,:] = [21. 7. 68. 75.]
179 cord_individual_obj[indivial_i,:] = [22. 6. 133. 139.]
180 cord_individual_obj[indivial_i,:] = [23. 9. 119. 128.]
181 cord_individual_obj[indivial_i,:] = [24. 11. 94. 105.]
182
183 min(cord_individual_obj[:,3]) = 58.0
184 historl_G_best_iter[iter,3] = 58.0
185 Begin iteration:
186
187 iter = 5
188 cord_individual_obj[indivial_i,:] = [ 0. 7. 133. 140.]
189 cord_individual_obj[indivial_i,:] = [ 1. 8. 108. 116.]
190 cord_individual_obj[indivial_i,:] = [ 2. 5. 113. 118.]
191 cord_individual_obj[indivial_i,:] = [ 3. 6. 92. 98.]
192 cord_individual_obj[indivial_i,:] = [ 4. 7. 51. 58.]
193 cord_individual_obj[indivial_i,:] = [ 5. 7. 121. 128.]
194 cord_individual_obj[indivial_i,:] = [ 6. 6. 123. 129.]
195 cord_individual_obj[indivial_i,:] = [ 7. 7. 123. 130.]
196 cord_individual_obj[indivial_i,:] = [ 8. 8. 156. 164.]
197 cord_individual_obj[indivial_i,:] = [ 9. 8. 161. 169.]
198 cord_individual_obj[indivial_i,:] = [10. 9. 143. 152.]
199 cord_individual_obj[indivial_i,:] = [11. 6. 128. 134.]
200 cord_individual_obj[indivial_i,:] = [12. 7. 100. 107.]
201 cord_individual_obj[indivial_i,:] = [13. 9. 84. 93.]
202 cord_individual_obj[indivial_i,:] = [14. 8. 104. 112.]
203 cord_individual_obj[indivial_i,:] = [15. 7. 110. 117.]
204 cord_individual_obj[indivial_i,:] = [16. 9. 122. 131.]
205 cord_individual_obj[indivial_i,:] = [17. 6. 107. 113.]
206 cord_individual_obj[indivial_i,:] = [18. 6. 54. 60.]
207 cord_individual_obj[indivial_i,:] = [19. 9. 139. 148.]
208 cord_individual_obj[indivial_i,:] = [20. 6. 118. 124.]
209 cord_individual_obj[indivial_i,:] = [21. 7. 76. 83.]
210 cord_individual_obj[indivial_i,:] = [22. 6. 78. 84.]
211 cord_individual_obj[indivial_i,:] = [23. 9. 138. 147.]
212 cord_individual_obj[indivial_i,:] = [24. 9. 100. 109.]
213
214 min(cord_individual_obj[:,3]) = 58.0
215 historl_G_best_iter[iter,3] = 58.0
216 Begin iteration:
217
218 iter = 6
219 cord_individual_obj[indivial_i,:] = [ 0. 7. 126. 133.]
220 cord_individual_obj[indivial_i,:] = [ 1. 6. 107. 113.]
221 cord_individual_obj[indivial_i,:] = [ 2. 6. 120. 126.]
222 cord_individual_obj[indivial_i,:] = [ 3. 6. 102. 108.]
223 cord_individual_obj[indivial_i,:] = [ 4. 8. 218. 226.]
224 cord_individual_obj[indivial_i,:] = [ 5. 6. 106. 112.]
225 cord_individual_obj[indivial_i,:] = [ 6. 7. 143. 150.]
226 cord_individual_obj[indivial_i,:] = [ 7. 7. 110. 117.]
227 cord_individual_obj[indivial_i,:] = [ 8. 7. 99. 106.]
228 cord_individual_obj[indivial_i,:] = [ 9. 7. 51. 58.]
229 cord_individual_obj[indivial_i,:] = [10. 5. 124. 129.]
230 cord_individual_obj[indivial_i,:] = [11. 8. 124. 132.]
231 cord_individual_obj[indivial_i,:] = [12. 8. 82. 90.]
232 cord_individual_obj[indivial_i,:] = [13. 6. 102. 108.]
233 cord_individual_obj[indivial_i,:] = [14. 8. 90. 98.]
234 cord_individual_obj[indivial_i,:] = [15. 6. 68. 74.]
235 cord_individual_obj[indivial_i,:] = [16. 7. 141. 148.]
236 cord_individual_obj[indivial_i,:] = [17. 7. 81. 88.]
237 cord_individual_obj[indivial_i,:] = [18. 7. 85. 92.]
238 cord_individual_obj[indivial_i,:] = [19. 7. 109. 116.]
239 cord_individual_obj[indivial_i,:] = [20. 6. 112. 118.]
240 cord_individual_obj[indivial_i,:] = [21. 7. 135. 142.]
241 cord_individual_obj[indivial_i,:] = [22. 6. 89. 95.]
242 cord_individual_obj[indivial_i,:] = [23. 5. 180. 185.]
243 cord_individual_obj[indivial_i,:] = [24. 7. 101. 108.]
244
245 min(cord_individual_obj[:,3]) = 58.0
246 historl_G_best_iter[iter,3] = 58.0
247 Begin iteration:

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248
249 iter = 7
250 cord_individual_obj[indivial_i, :] = [ 0. 6. 176. 182.]
251 cord_individual_obj[indivial_i, :] = [ 1. 7. 84. 91.]
252 cord_individual_obj[indivial_i, :] = [ 2. 6. 107. 113.]
253 cord_individual_obj[indivial_i, :] = [ 3. 7. 117. 124.]
254 cord_individual_obj[indivial_i, :] = [ 4. 7. 51. 58.]
255 cord_individual_obj[indivial_i, :] = [ 5. 8. 152. 160.]
256 cord_individual_obj[indivial_i, :] = [ 6. 6. 130. 136.]
257 cord_individual_obj[indivial_i, :] = [ 7. 8. 90. 98.]
258 cord_individual_obj[indivial_i, :] = [ 8. 8. 130. 138.]
259 cord_individual_obj[indivial_i, :] = [ 9. 8. 133. 141.]
260 cord_individual_obj[indivial_i, :] = [ 10. 7. 126. 133.]
261 cord_individual_obj[indivial_i, :] = [ 11. 6. 96. 102.]
262 cord_individual_obj[indivial_i, :] = [ 12. 7. 133. 140.]
263 cord_individual_obj[indivial_i, :] = [ 13. 6. 81. 87.]
264 cord_individual_obj[indivial_i, :] = [ 14. 6. 100. 106.]
265 cord_individual_obj[indivial_i, :] = [ 15. 9. 178. 187.]
266 cord_individual_obj[indivial_i, :] = [ 16. 7. 145. 152.]
267 cord_individual_obj[indivial_i, :] = [ 17. 8. 146. 154.]
268 cord_individual_obj[indivial_i, :] = [ 18. 5. 122. 127.]
269 cord_individual_obj[indivial_i, :] = [ 19. 8. 105. 113.]
270 cord_individual_obj[indivial_i, :] = [ 20. 7. 80. 87.]
271 cord_individual_obj[indivial_i, :] = [ 21. 6. 88. 94.]
272 cord_individual_obj[indivial_i, :] = [ 22. 7. 67. 74.]
273 cord_individual_obj[indivial_i, :] = [ 23. 6. 114. 120.]
274 cord_individual_obj[indivial_i, :] = [ 24. 10. 140. 150.]
275

276 min(cord_individual_obj[:, 3]) = 58.0
277 historl_G_best_iter[iter, 3] = 58.0
278 Begin iteration:
279
280 iter = 8
281 cord_individual_obj[indivial_i, :] = [ 0. 7. 89. 96.]
282 cord_individual_obj[indivial_i, :] = [ 1. 8. 98. 106.]
283 cord_individual_obj[indivial_i, :] = [ 2. 6. 97. 103.]
284 cord_individual_obj[indivial_i, :] = [ 3. 6. 177. 183.]
285 cord_individual_obj[indivial_i, :] = [ 4. 8. 145. 153.]
286 cord_individual_obj[indivial_i, :] = [ 5. 6. 102. 108.]
287 cord_individual_obj[indivial_i, :] = [ 6. 8. 60. 68.]
288 cord_individual_obj[indivial_i, :] = [ 7. 8. 109. 117.]
289 cord_individual_obj[indivial_i, :] = [ 8. 8. 193. 201.]
290 cord_individual_obj[indivial_i, :] = [ 9. 8. 139. 147.]
291 cord_individual_obj[indivial_i, :] = [ 10. 7. 142. 149.]
292 cord_individual_obj[indivial_i, :] = [ 11. 8. 103. 111.]
293 cord_individual_obj[indivial_i, :] = [ 12. 6. 110. 116.]
294 cord_individual_obj[indivial_i, :] = [ 13. 7. 105. 112.]
295 cord_individual_obj[indivial_i, :] = [ 14. 6. 120. 126.]
296 cord_individual_obj[indivial_i, :] = [ 15. 7. 51. 58.]
297 cord_individual_obj[indivial_i, :] = [ 16. 7. 139. 146.]
298 cord_individual_obj[indivial_i, :] = [ 17. 8. 172. 180.]
299 cord_individual_obj[indivial_i, :] = [ 18. 6. 87. 93.]
300 cord_individual_obj[indivial_i, :] = [ 19. 9. 90. 99.]
301 cord_individual_obj[indivial_i, :] = [ 20. 7. 122. 129.]
302 cord_individual_obj[indivial_i, :] = [ 21. 6. 100. 106.]
303 cord_individual_obj[indivial_i, :] = [ 22. 6. 98. 104.]
304 cord_individual_obj[indivial_i, :] = [ 23. 6. 205. 211.]
305 cord_individual_obj[indivial_i, :] = [ 24. 8. 101. 109.]
306

307 min(cord_individual_obj[:, 3]) = 58.0
308 historl_G_best_iter[iter, 3] = 58.0
309 Begin iteration:
310
311 iter = 9
312 cord_individual_obj[indivial_i, :] = [ 0. 6. 102. 108.]
313 cord_individual_obj[indivial_i, :] = [ 1. 5. 142. 147.]
314 cord_individual_obj[indivial_i, :] = [ 2. 11. 115. 126.]
315 cord_individual_obj[indivial_i, :] = [ 3. 7. 136. 143.]
316 cord_individual_obj[indivial_i, :] = [ 4. 7. 89. 96.]
317 cord_individual_obj[indivial_i, :] = [ 5. 8. 103. 111.]
318 cord_individual_obj[indivial_i, :] = [ 6. 7. 75. 82.]
319 cord_individual_obj[indivial_i, :] = [ 7. 5. 109. 114.]
320 cord_individual_obj[indivial_i, :] = [ 8. 10. 107. 117.]
321 cord_individual_obj[indivial_i, :] = [ 9. 9. 102. 111.]
322 cord_individual_obj[indivial_i, :] = [ 10. 7. 81. 88.]
323 cord_individual_obj[indivial_i, :] = [ 11. 8. 54. 62.]
324 cord_individual_obj[indivial_i, :] = [ 12. 9. 166. 175.]
325 cord_individual_obj[indivial_i, :] = [ 13. 8. 58. 66.]
326 cord_individual_obj[indivial_i, :] = [ 14. 8. 67. 75.]
327 cord_individual_obj[indivial_i, :] = [ 15. 7. 89. 96.]
328 cord_individual_obj[indivial_i, :] = [ 16. 10. 178. 188.]
329 cord_individual_obj[indivial_i, :] = [ 17. 6. 183. 189.]
330 cord_individual_obj[indivial_i, :] = [ 18. 7. 124. 131.]
331 cord_individual_obj[indivial_i, :] = [ 19. 6. 141. 147.]

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332 cord_individual_obj[indivial_i, :] = [ 20. 7. 123. 130.]
333 cord_individual_obj[indivial_i, :] = [21. 7. 56. 63.]
334 cord_individual_obj[indivial_i, :] = [ 22. 8. 175. 183.]
335 cord_individual_obj[indivial_i, :] = [23. 7. 51. 58.]
336 cord_individual_obj[indivial_i, :] = [ 24. 9. 105. 114.]
337
338 min(cord_individual_obj[:, 3]) = 58.0
339 histol_G_best_iter[iter, 3] = 58.0
340 Begin iteration:
341
342 iter = 10
343 cord_individual_obj[indivial_i, :] = [ 0. 5. 153. 158.]
344 cord_individual_obj[indivial_i, :] = [ 1. 8. 147. 155.]
345 cord_individual_obj[indivial_i, :] = [ 2. 8. 109. 117.]
346 cord_individual_obj[indivial_i, :] = [ 3. 6. 163. 169.]
347 cord_individual_obj[indivial_i, :] = [ 4. 8. 189. 197.]
348 cord_individual_obj[indivial_i, :] = [ 5. 8. 156. 164.]
349 cord_individual_obj[indivial_i, :] = [ 6. 7. 93. 100.]
350 cord_individual_obj[indivial_i, :] = [ 7. 6. 143. 149.]
351 cord_individual_obj[indivial_i, :] = [ 8. 9. 60. 69.]
352 cord_individual_obj[indivial_i, :] = [ 9. 7. 91. 98.]
353 cord_individual_obj[indivial_i, :] = [ 10. 6. 97. 103.]
354 cord_individual_obj[indivial_i, :] = [ 11. 8. 156. 164.]
355 cord_individual_obj[indivial_i, :] = [ 12. 7. 184. 191.]
356 cord_individual_obj[indivial_i, :] = [13. 8. 85. 93.]
357 cord_individual_obj[indivial_i, :] = [ 14. 8. 198. 206.]
358 cord_individual_obj[indivial_i, :] = [ 15. 9. 131. 140.]
359 cord_individual_obj[indivial_i, :] = [ 16. 6. 131. 137.]
360 cord_individual_obj[indivial_i, :] = [17. 7. 51. 58.]
361 cord_individual_obj[indivial_i, :] = [ 18. 6. 131. 137.]
362 cord_individual_obj[indivial_i, :] = [ 19. 10. 155. 165.]
363 cord_individual_obj[indivial_i, :] = [ 20. 7. 151. 158.]
364 cord_individual_obj[indivial_i, :] = [ 21. 7. 130. 137.]
365 cord_individual_obj[indivial_i, :] = [ 22. 10. 155. 165.]
366 cord_individual_obj[indivial_i, :] = [ 23. 6. 101. 107.]
367 cord_individual_obj[indivial_i, :] = [ 24. 7. 99. 106.]
368
369 min(cord_individual_obj[:, 3]) = 58.0
370 histol_G_best_iter[iter, 3] = 58.0
371 Begin iteration:
372
373 iter = 11
374 cord_individual_obj[indivial_i, :] = [ 0. 8. 119. 127.]
375 cord_individual_obj[indivial_i, :] = [ 1. 6. 83. 89.]
376 cord_individual_obj[indivial_i, :] = [ 2. 6. 98. 104.]
377 cord_individual_obj[indivial_i, :] = [ 3. 7. 80. 87.]
378 cord_individual_obj[indivial_i, :] = [ 4. 10. 200. 210.]
379 cord_individual_obj[indivial_i, :] = [ 5. 7. 153. 160.]
380 cord_individual_obj[indivial_i, :] = [ 6. 6. 137. 143.]
381 cord_individual_obj[indivial_i, :] = [ 7. 8. 51. 59.]
382 cord_individual_obj[indivial_i, :] = [ 8. 9. 210. 219.]
383 cord_individual_obj[indivial_i, :] = [ 9. 8. 119. 127.]
384 cord_individual_obj[indivial_i, :] = [10. 8. 90. 98.]
385 cord_individual_obj[indivial_i, :] = [11. 8. 100. 108.]
386 cord_individual_obj[indivial_i, :] = [12. 7. 145. 152.]
387 cord_individual_obj[indivial_i, :] = [13. 9. 86. 95.]
388 cord_individual_obj[indivial_i, :] = [14. 7. 51. 58.]
389 cord_individual_obj[indivial_i, :] = [15. 9. 157. 166.]
390 cord_individual_obj[indivial_i, :] = [16. 8. 130. 138.]
391 cord_individual_obj[indivial_i, :] = [17. 8. 95. 103.]
392 cord_individual_obj[indivial_i, :] = [18. 7. 125. 132.]
393 cord_individual_obj[indivial_i, :] = [19. 9. 119. 128.]
394 cord_individual_obj[indivial_i, :] = [20. 7. 122. 129.]
395 cord_individual_obj[indivial_i, :] = [21. 6. 58. 64.]
396 cord_individual_obj[indivial_i, :] = [22. 8. 133. 141.]
397 cord_individual_obj[indivial_i, :] = [23. 7. 117. 124.]
398 cord_individual_obj[indivial_i, :] = [24. 9. 116. 125.]
399
400 min(cord_individual_obj[:, 3]) = 58.0
401 histol_G_best_iter[iter, 3] = 58.0
402 Begin iteration:
403
404 iter = 12
405 cord_individual_obj[indivial_i, :] = [ 0. 8. 74. 82.]
406 cord_individual_obj[indivial_i, :] = [ 1. 7. 92. 99.]
407 cord_individual_obj[indivial_i, :] = [ 2. 6. 85. 91.]
408 cord_individual_obj[indivial_i, :] = [ 3. 6. 98. 104.]
409 cord_individual_obj[indivial_i, :] = [ 4. 9. 175. 184.]
410 cord_individual_obj[indivial_i, :] = [ 5. 10. 120. 130.]
411 cord_individual_obj[indivial_i, :] = [ 6. 9. 148. 157.]
412 cord_individual_obj[indivial_i, :] = [ 7. 7. 129. 136.]
413 cord_individual_obj[indivial_i, :] = [ 8. 7. 51. 58.]
414 cord_individual_obj[indivial_i, :] = [ 9. 7. 113. 120.]
415 cord_individual_obj[indivial_i, :] = [10. 6. 136. 142.]

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416 cord_individual_obj[indivial_i,:] = [11. 8. 82. 90.]
417 cord_individual_obj[indivial_i,:] = [12. 7. 147. 154.]
418 cord_individual_obj[indivial_i,:] = [13. 7. 137. 144.]
419 cord_individual_obj[indivial_i,:] = [14. 7. 100. 107.]
420 cord_individual_obj[indivial_i,:] = [15. 9. 119. 128.]
421 cord_individual_obj[indivial_i,:] = [16. 7. 121. 128.]
422 cord_individual_obj[indivial_i,:] = [17. 5. 98. 103.]
423 cord_individual_obj[indivial_i,:] = [18. 7. 151. 158.]
424 cord_individual_obj[indivial_i,:] = [19. 7. 68. 75.]
425 cord_individual_obj[indivial_i,:] = [20. 5. 98. 103.]
426 cord_individual_obj[indivial_i,:] = [21. 7. 88. 95.]
427 cord_individual_obj[indivial_i,:] = [22. 8. 133. 141.]
428 cord_individual_obj[indivial_i,:] = [23. 7. 139. 146.]
429 cord_individual_obj[indivial_i,:] = [24. 10. 122. 132.]
430
431 min(cord_individual_obj[:,3]) = 58.0
432 histol_G_best_iter[iter,3] = 58.0
433 Begin iteration:
434
435 iter = 13
436 cord_individual_obj[indivial_i,:] = [0. 5. 70. 75.]
437 cord_individual_obj[indivial_i,:] = [1. 6. 114. 120.]
438 cord_individual_obj[indivial_i,:] = [2. 6. 125. 131.]
439 cord_individual_obj[indivial_i,:] = [3. 6. 89. 95.]
440 cord_individual_obj[indivial_i,:] = [4. 7. 51. 58.]
441 cord_individual_obj[indivial_i,:] = [5. 7. 87. 94.]
442 cord_individual_obj[indivial_i,:] = [6. 7. 81. 88.]
443 cord_individual_obj[indivial_i,:] = [7. 7. 101. 108.]
444 cord_individual_obj[indivial_i,:] = [8. 8. 88. 96.]
445 cord_individual_obj[indivial_i,:] = [9. 9. 124. 133.]
446 cord_individual_obj[indivial_i,:] = [10. 6. 139. 145.]
447 cord_individual_obj[indivial_i,:] = [11. 7. 59. 66.]
448 cord_individual_obj[indivial_i,:] = [12. 8. 96. 104.]
449 cord_individual_obj[indivial_i,:] = [13. 7. 85. 92.]
450 cord_individual_obj[indivial_i,:] = [14. 9. 100. 109.]
451 cord_individual_obj[indivial_i,:] = [15. 8. 85. 93.]
452 cord_individual_obj[indivial_i,:] = [16. 7. 84. 91.]
453 cord_individual_obj[indivial_i,:] = [17. 7. 108. 115.]
454 cord_individual_obj[indivial_i,:] = [18. 8. 65. 73.]
455 cord_individual_obj[indivial_i,:] = [19. 9. 106. 115.]
456 cord_individual_obj[indivial_i,:] = [20. 7. 76. 83.]
457 cord_individual_obj[indivial_i,:] = [21. 6. 129. 135.]
458 cord_individual_obj[indivial_i,:] = [22. 7. 103. 110.]
459 cord_individual_obj[indivial_i,:] = [23. 8. 58. 66.]
460 cord_individual_obj[indivial_i,:] = [24. 8. 105. 113.]
461
462 min(cord_individual_obj[:,3]) = 58.0
463 histol_G_best_iter[iter,3] = 58.0
464 Begin iteration:
465
466 iter = 14
467 cord_individual_obj[indivial_i,:] = [0. 8. 98. 106.]
468 cord_individual_obj[indivial_i,:] = [1. 7. 104. 111.]
469 cord_individual_obj[indivial_i,:] = [2. 6. 92. 98.]
470 cord_individual_obj[indivial_i,:] = [3. 6. 92. 98.]
471 cord_individual_obj[indivial_i,:] = [4. 7. 135. 142.]
472 cord_individual_obj[indivial_i,:] = [5. 9. 107. 116.]
473 cord_individual_obj[indivial_i,:] = [6. 9. 119. 128.]
474 cord_individual_obj[indivial_i,:] = [7. 8. 131. 139.]
475 cord_individual_obj[indivial_i,:] = [8. 6. 112. 118.]
476 cord_individual_obj[indivial_i,:] = [9. 8. 171. 179.]
477 cord_individual_obj[indivial_i,:] = [10. 7. 51. 58.]
478 cord_individual_obj[indivial_i,:] = [11. 8. 78. 86.]
479 cord_individual_obj[indivial_i,:] = [12. 5. 83. 88.]
480 cord_individual_obj[indivial_i,:] = [13. 8. 103. 111.]
481 cord_individual_obj[indivial_i,:] = [14. 6. 83. 89.]
482 cord_individual_obj[indivial_i,:] = [15. 7. 65. 72.]
483 cord_individual_obj[indivial_i,:] = [16. 7. 157. 164.]
484 cord_individual_obj[indivial_i,:] = [17. 5. 129. 134.]
485 cord_individual_obj[indivial_i,:] = [18. 6. 108. 114.]
486 cord_individual_obj[indivial_i,:] = [19. 8. 89. 97.]
487 cord_individual_obj[indivial_i,:] = [20. 7. 108. 115.]
488 cord_individual_obj[indivial_i,:] = [21. 8. 146. 154.]
489 cord_individual_obj[indivial_i,:] = [22. 8. 107. 115.]
490 cord_individual_obj[indivial_i,:] = [23. 6. 104. 110.]
491 cord_individual_obj[indivial_i,:] = [24. 9. 141. 150.]
492
493 min(cord_individual_obj[:,3]) = 58.0
494 histol_G_best_iter[iter,3] = 58.0
495 Begin iteration:
496
497 iter = 15
498 cord_individual_obj[indivial_i,:] = [0. 6. 151. 157.]
499 cord_individual_obj[indivial_i,:] = [1. 9. 127. 136.]

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500 cord_individual_obj[indivial_i,:] = [ 2. 9. 115. 124.]
501 cord_individual_obj[indivial_i,:] = [ 3. 6. 166. 172.]
502 cord_individual_obj[indivial_i,:] = [ 4. 11. 143. 154.]
503 cord_individual_obj[indivial_i,:] = [ 5. 7. 97. 104.]
504 cord_individual_obj[indivial_i,:] = [ 6. 7. 108. 115.]
505 cord_individual_obj[indivial_i,:] = [ 7. 6. 62. 68.]
506 cord_individual_obj[indivial_i,:] = [ 8. 6. 77. 83.]
507 cord_individual_obj[indivial_i,:] = [ 9. 7. 51. 58.]
508 cord_individual_obj[indivial_i,:] = [ 10. 9. 124. 133.]
509 cord_individual_obj[indivial_i,:] = [ 11. 7. 71. 78.]
510 cord_individual_obj[indivial_i,:] = [ 12. 7. 115. 122.]
511 cord_individual_obj[indivial_i,:] = [ 13. 8. 143. 151.]
512 cord_individual_obj[indivial_i,:] = [ 14. 8. 147. 155.]
513 cord_individual_obj[indivial_i,:] = [ 15. 7. 99. 106.]
514 cord_individual_obj[indivial_i,:] = [ 16. 8. 104. 112.]
515 cord_individual_obj[indivial_i,:] = [ 17. 8. 104. 112.]
516 cord_individual_obj[indivial_i,:] = [ 18. 9. 133. 142.]
517 cord_individual_obj[indivial_i,:] = [ 19. 7. 89. 96.]
518 cord_individual_obj[indivial_i,:] = [ 20. 8. 127. 135.]
519 cord_individual_obj[indivial_i,:] = [ 21. 7. 105. 112.]
520 cord_individual_obj[indivial_i,:] = [ 22. 6. 55. 61.]
521 cord_individual_obj[indivial_i,:] = [ 23. 6. 120. 126.]
522 cord_individual_obj[indivial_i,:] = [ 24. 7. 105. 112.]
523
524 min(cord_individual_obj[:, 3]) = 58.0
525 histol_G_best_iter[iter, 3] = 58.0
526 Begin iteration:
527
528 iter = 16
529 cord_individual_obj[indivial_i,:] = [ 0. 7. 101. 108.]
530 cord_individual_obj[indivial_i,:] = [ 1. 7. 112. 119.]
531 cord_individual_obj[indivial_i,:] = [ 2. 8. 92. 100.]
532 cord_individual_obj[indivial_i,:] = [ 3. 7. 51. 58.]
533 cord_individual_obj[indivial_i,:] = [ 4. 7. 139. 146.]
534 cord_individual_obj[indivial_i,:] = [ 5. 8. 107. 115.]
535 cord_individual_obj[indivial_i,:] = [ 6. 7. 86. 93.]
536 cord_individual_obj[indivial_i,:] = [ 7. 8. 104. 112.]
537 cord_individual_obj[indivial_i,:] = [ 8. 7. 150. 157.]
538 cord_individual_obj[indivial_i,:] = [ 9. 7. 88. 95.]
539 cord_individual_obj[indivial_i,:] = [ 10. 7. 77. 84.]
540 cord_individual_obj[indivial_i,:] = [ 11. 6. 125. 131.]
541 cord_individual_obj[indivial_i,:] = [ 12. 7. 110. 117.]
542 cord_individual_obj[indivial_i,:] = [ 13. 6. 84. 90.]
543 cord_individual_obj[indivial_i,:] = [ 14. 7. 109. 116.]
544 cord_individual_obj[indivial_i,:] = [ 15. 7. 153. 160.]
545 cord_individual_obj[indivial_i,:] = [ 16. 8. 159. 167.]
546 cord_individual_obj[indivial_i,:] = [ 17. 7. 89. 96.]
547 cord_individual_obj[indivial_i,:] = [ 18. 7. 129. 136.]
548 cord_individual_obj[indivial_i,:] = [ 19. 5. 106. 111.]
549 cord_individual_obj[indivial_i,:] = [ 20. 6. 118. 124.]
550 cord_individual_obj[indivial_i,:] = [ 21. 10. 141. 151.]
551 cord_individual_obj[indivial_i,:] = [ 22. 9. 134. 143.]
552 cord_individual_obj[indivial_i,:] = [ 23. 8. 112. 120.]
553 cord_individual_obj[indivial_i,:] = [ 24. 9. 99. 108.]
554
555 min(cord_individual_obj[:, 3]) = 58.0
556 histol_G_best_iter[iter, 3] = 58.0
557 Begin iteration:
558
559 iter = 17
560 cord_individual_obj[indivial_i,:] = [ 0. 6. 75. 81.]
561 cord_individual_obj[indivial_i,:] = [ 1. 7. 98. 105.]
562 cord_individual_obj[indivial_i,:] = [ 2. 7. 96. 103.]
563 cord_individual_obj[indivial_i,:] = [ 3. 8. 134. 142.]
564 cord_individual_obj[indivial_i,:] = [ 4. 9. 247. 256.]
565 cord_individual_obj[indivial_i,:] = [ 5. 6. 107. 113.]
566 cord_individual_obj[indivial_i,:] = [ 6. 7. 104. 111.]
567 cord_individual_obj[indivial_i,:] = [ 7. 5. 111. 116.]
568 cord_individual_obj[indivial_i,:] = [ 8. 6. 84. 90.]
569 cord_individual_obj[indivial_i,:] = [ 9. 9. 120. 129.]
570 cord_individual_obj[indivial_i,:] = [ 10. 7. 142. 149.]
571 cord_individual_obj[indivial_i,:] = [ 11. 7. 108. 115.]
572 cord_individual_obj[indivial_i,:] = [ 12. 7. 163. 170.]
573 cord_individual_obj[indivial_i,:] = [ 13. 7. 105. 112.]
574 cord_individual_obj[indivial_i,:] = [ 14. 7. 129. 136.]
575 cord_individual_obj[indivial_i,:] = [ 15. 12. 171. 183.]
576 cord_individual_obj[indivial_i,:] = [ 16. 7. 51. 58.]
577 cord_individual_obj[indivial_i,:] = [ 17. 8. 99. 107.]
578 cord_individual_obj[indivial_i,:] = [ 18. 8. 105. 113.]
579 cord_individual_obj[indivial_i,:] = [ 19. 7. 127. 134.]
580 cord_individual_obj[indivial_i,:] = [ 20. 7. 107. 114.]
581 cord_individual_obj[indivial_i,:] = [ 21. 8. 130. 138.]
582 cord_individual_obj[indivial_i,:] = [ 22. 10. 126. 136.]
583 cord_individual_obj[indivial_i,:] = [ 23. 6. 58. 64.]

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584     cord_individual_obj[indivial_i, :] = [ 24.  6. 120. 126.]
585
586     min(cord_individual_obj[:, 3]) = 58.0
587     historl_G_best_iter[iter, 3] = 58.0
588 Begin iteration:
589
590 iter = 18
591     cord_individual_obj[indivial_i, :] = [ 0.  6. 105. 111.]
592     cord_individual_obj[indivial_i, :] = [ 1.  6. 108. 114.]
593     cord_individual_obj[indivial_i, :] = [ 2.  9. 117. 126.]
594     cord_individual_obj[indivial_i, :] = [ 3.  6. 92. 98.]
595     cord_individual_obj[indivial_i, :] = [ 4.  7. 51. 58.]
596     cord_individual_obj[indivial_i, :] = [ 5.  7. 112. 119.]
597     cord_individual_obj[indivial_i, :] = [ 6.  7. 81. 88.]
598     cord_individual_obj[indivial_i, :] = [ 7.  8. 148. 156.]
599     cord_individual_obj[indivial_i, :] = [ 8.  8. 160. 168.]
600     cord_individual_obj[indivial_i, :] = [ 9.  9. 101. 110.]
601     cord_individual_obj[indivial_i, :] = [10.  7. 110. 117.]
602     cord_individual_obj[indivial_i, :] = [11.  7. 73. 80.]
603     cord_individual_obj[indivial_i, :] = [12.  7. 103. 110.]
604     cord_individual_obj[indivial_i, :] = [13.  7. 67. 74.]
605     cord_individual_obj[indivial_i, :] = [14.  8. 99. 107.]
606     cord_individual_obj[indivial_i, :] = [15. 10. 119. 129.]
607     cord_individual_obj[indivial_i, :] = [16.  6. 86. 92.]
608     cord_individual_obj[indivial_i, :] = [17.  6. 117. 123.]
609     cord_individual_obj[indivial_i, :] = [18.  7. 134. 141.]
610     cord_individual_obj[indivial_i, :] = [19.  7. 70. 77.]
611     cord_individual_obj[indivial_i, :] = [20.  6. 92. 98.]
612     cord_individual_obj[indivial_i, :] = [21.  6. 132. 138.]
613     cord_individual_obj[indivial_i, :] = [22. 10. 119. 129.]
614     cord_individual_obj[indivial_i, :] = [23.  6. 104. 110.]
615     cord_individual_obj[indivial_i, :] = [24.  8. 95. 103.]
616
617     min(cord_individual_obj[:, 3]) = 58.0
618     historl_G_best_iter[iter, 3] = 58.0
619 Begin iteration:
620
621 iter = 19
622     cord_individual_obj[indivial_i, :] = [ 0.  9. 149. 158.]
623     cord_individual_obj[indivial_i, :] = [ 1.  8. 98. 106.]
624     cord_individual_obj[indivial_i, :] = [ 2.  8. 108. 116.]
625     cord_individual_obj[indivial_i, :] = [ 3.  8. 148. 156.]
626     cord_individual_obj[indivial_i, :] = [ 4.  9. 156. 165.]
627     cord_individual_obj[indivial_i, :] = [ 5.  8. 105. 113.]
628     cord_individual_obj[indivial_i, :] = [ 6.  7. 112. 119.]
629     cord_individual_obj[indivial_i, :] = [ 7.  6. 118. 124.]
630     cord_individual_obj[indivial_i, :] = [ 8.  7. 51. 58.]
631     cord_individual_obj[indivial_i, :] = [ 9.  7. 119. 126.]
632     cord_individual_obj[indivial_i, :] = [10.  7. 146. 153.]
633     cord_individual_obj[indivial_i, :] = [11.  8. 110. 118.]
634     cord_individual_obj[indivial_i, :] = [12.  8. 174. 182.]
635     cord_individual_obj[indivial_i, :] = [13.  8. 101. 109.]
636     cord_individual_obj[indivial_i, :] = [14.  8. 95. 103.]
637     cord_individual_obj[indivial_i, :] = [15.  8. 72. 80.]
638     cord_individual_obj[indivial_i, :] = [16.  7. 152. 159.]
639     cord_individual_obj[indivial_i, :] = [17.  8. 101. 109.]
640     cord_individual_obj[indivial_i, :] = [18.  8. 92. 100.]
641     cord_individual_obj[indivial_i, :] = [19. 10. 93. 103.]
642     cord_individual_obj[indivial_i, :] = [20.  8. 127. 135.]
643     cord_individual_obj[indivial_i, :] = [21.  6. 59. 65.]
644     cord_individual_obj[indivial_i, :] = [22.  6. 102. 108.]
645     cord_individual_obj[indivial_i, :] = [23.  6. 107. 113.]
646     cord_individual_obj[indivial_i, :] = [24.  9. 109. 118.]
647
648     min(cord_individual_obj[:, 3]) = 58.0
649     historl_G_best_iter[iter, 3] = 58.0
650 Begin iteration:
651
652 iter = 20
653     cord_individual_obj[indivial_i, :] = [ 0. 10. 164. 174.]
654     cord_individual_obj[indivial_i, :] = [ 1.  6. 120. 126.]
655     cord_individual_obj[indivial_i, :] = [ 2.  7. 121. 128.]
656     cord_individual_obj[indivial_i, :] = [ 3.  6. 153. 159.]
657     cord_individual_obj[indivial_i, :] = [ 4.  7. 66. 73.]
658     cord_individual_obj[indivial_i, :] = [ 5.  7. 115. 122.]
659     cord_individual_obj[indivial_i, :] = [ 6.  8. 84. 92.]
660     cord_individual_obj[indivial_i, :] = [ 7.  7. 135. 142.]
661     cord_individual_obj[indivial_i, :] = [ 8.  7. 93. 100.]
662     cord_individual_obj[indivial_i, :] = [ 9.  7. 145. 152.]
663     cord_individual_obj[indivial_i, :] = [10.  5. 101. 106.]
664     cord_individual_obj[indivial_i, :] = [11.  8. 101. 109.]
665     cord_individual_obj[indivial_i, :] = [12.  7. 51. 58.]
666     cord_individual_obj[indivial_i, :] = [13.  8. 171. 179.]
667     cord_individual_obj[indivial_i, :] = [14.  9. 121. 130.]

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668 cord_individual_obj[indivial_i,:] = [ 15. 9. 154. 163.]
669 cord_individual_obj[indivial_i,:] = [ 16. 8. 192. 200.]
670 cord_individual_obj[indivial_i,:] = [ 17. 5. 110. 115.]
671 cord_individual_obj[indivial_i,:] = [ 18. 7. 97. 104.]
672 cord_individual_obj[indivial_i,:] = [19. 6. 89. 95.]
673 cord_individual_obj[indivial_i,:] = [ 20. 6. 103. 109.]
674 cord_individual_obj[indivial_i,:] = [ 21. 5. 122. 127.]
675 cord_individual_obj[indivial_i,:] = [ 22. 6. 102. 108.]
676 cord_individual_obj[indivial_i,:] = [ 23. 7. 147. 154.]
677 cord_individual_obj[indivial_i,:] = [ 24. 10. 186. 196.]
678
679 min(cord_individual_obj[:, 3]) = 58.0
680 historl_G_best_iter[iter, 3] = 58.0
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: [ 3. 4.5 14. 18.5 16.5 12. 3.5 24.5 19.5 25. 9.5 10. 14.5]
692 time: [1. 0. 2. 3. 0. 0. 3. 4. 0. 0. 2. 4. 4.]
693 num_QC: [4. 3. 2. 5. 3. 4. 5. 3. 3. 2. 3. 6. 1.]
694 Objective function values and some other indicators:
695 Obj0 = 7.00 Obj1 = 51.00 Obj0 + Obj1 = 58.00
696 Total movement of crane: 6.00
697 Total waiting time in berth position: 23.00
698 Total index of q during berthing: 818.00
699 Specific arrangement for each vessel:
700 V_id: 0 li: 6.0 xi: 3.0 bow of i: 0.0 tail of i: 6.0 gama_i0: 1.0 gama_i1: 2.0
701 120.0 work load gap_i: 0 gama_i1 + 1: 3.0 gama_i1 - gama_i0: 1.0 duration_time_i: 2.0 demand_i: 120.0 work load_i:
702 V_id: 1 li: 9.0 xi: 4.5 bow of i: 0.0 tail of i: 9.0 gama_i0: 0.0 gama_i1: 0.0
703 60.0 work load gap_i: 0 gama_i1 + 1: 1.0 gama_i1 - gama_i0: 0.0 duration_time_i: 1.0 demand_i: 60.0 work load_i:
704 V_id: 2 li: 4.0 xi: 14.0 bow of i: 12.0 tail of i: 16.0 gama_i0: 2.0 gama_i1: 3
705 .0 load_i: 80.0 work load gap_i: 0 gama_i1 + 1: 4.0 gama_i1 - gama_i0: 1.0 duration_time_i: 2.0 demand_i: 80.0 work
706 V_id: 3 li: 5.0 xi: 18.5 bow of i: 16.0 tail of i: 21.0 gama_i0: 3.0 gama_i1: 3
707 .0 load_i: 100.0 work load gap_i: 0 gama_i1 + 1: 4.0 gama_i1 - gama_i0: 0.0 duration_time_i: 1.0 demand_i: 100.0 work
708 V_id: 4 li: 3.0 xi: 16.5 bow of i: 15.0 tail of i: 18.0 gama_i0: 0.0 gama_i1: 1
709 .0 load_i: 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
710 V_id: 5 li: 6.0 xi: 12.0 bow of i: 9.0 tail of i: 15.0 gama_i0: 0.0 gama_i1: 1
711 .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
712 V_id: 6 li: 7.0 xi: 3.5 bow of i: 0.0 tail of i: 7.0 gama_i0: 3.0 gama_i1: 4
713 160.0 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 load_i:
714 V_id: 7 li: 7.0 xi: 24.5 bow of i: 21.0 tail of i: 28.0 gama_i0: 4.0 gama_i1: 4
715 .0 load_i: 60.0 work load gap_i: 0 gama_i1 + 1: 5.0 gama_i1 - gama_i0: 0.0 duration_time_i: 1.0 demand_i: 60.0 work
716 V_id: 8 li: 3.0 xi: 19.5 bow of i: 18.0 tail of i: 21.0 gama_i0: 0.0 gama_i1: 2
717 .0 load_i: 160.0 work load gap_i: 0 gama_i1 + 1: 3.0 gama_i1 - gama_i0: 2.0 duration_time_i: 3.0 demand_i: 160.0 work
718 V_id: 9 li: 8.0 xi: 25.0 bow of i: 21.0 tail of i: 29.0 gama_i0: 0.0 gama_i1: 3
719 .0 load_i: 140.0 work load gap_i: 0 gama_i1 + 1: 4.0 gama_i1 - gama_i0: 3.0 duration_time_i: 4.0 demand_i: 140.0 work
720 V_id: 10 li: 5.0 xi: 9.5 bow of i: 7.0 tail of i: 12.0 gama_i0: 2.0 gama_i1: 3
721 .0 load_i: 80.0 work load gap_i: 0 gama_i1 + 1: 4.0 gama_i1 - gama_i0: 1.0 duration_time_i: 2.0 demand_i: 80.0 work
722 V_id: 11 li: 6.0 xi: 10.0 bow of i: 7.0 tail of i: 13.0 gama_i0: 4.0 gama_i1: 1
723 : 4.0 load_i: 120.0 work load gap_i: 0 gama_i1 + 1: 5.0 gama_i1 - gama_i0: 0.0 duration_time_i: 1.0 demand_i: 120.0 work
724 V_id: 12 li: 3.0 xi: 14.5 bow of i: 13.0 tail of i: 16.0 gama_i0: 4.0 gama_i1: 1
725 : 7.0 load_i: 80.0 work load gap_i: 0 gama_i1 + 1: 8.0 gama_i1 - gama_i0: 3.0 duration_time_i: 4.0 demand_i: 80.0 work
726
727 Algorithm finished and the total CPU time: 340 s
728 End
729

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