

unknown

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80 cord_individual_obj[indivial_i,:] = [16. 5. 94. 99.]
81 cord_individual_obj[indivial_i,:] = [17. 7. 41. 48.]
82 cord_individual_obj[indivial_i,:] = [18. 8. 62. 70.]
83 cord_individual_obj[indivial_i,:] = [19. 7. 111. 118.]
84 cord_individual_obj[indivial_i,:] = [20. 8. 79. 87.]
85 cord_individual_obj[indivial_i,:] = [21. 7. 83. 90.]
86 cord_individual_obj[indivial_i,:] = [22. 7. 115. 122.]
87 cord_individual_obj[indivial_i,:] = [23. 6. 83. 89.]
88 cord_individual_obj[indivial_i,:] = [24. 7. 59. 66.]
89
90 min(cord_individual_obj[:,3]) = 43.0
91 historl_G_best_iter[iter, 3] = 43.0
92 Begin iteration:
93
94 iter = 2
95 cord_individual_obj[indivial_i,:] = [ 0. 7. 160. 167.]
96 cord_individual_obj[indivial_i,:] = [ 1. 6. 128. 134.]
97 cord_individual_obj[indivial_i,:] = [ 2. 8. 148. 156.]
98 cord_individual_obj[indivial_i,:] = [ 3. 6. 167. 173.]
99 cord_individual_obj[indivial_i,:] = [ 4. 9. 113. 122.]
100 cord_individual_obj[indivial_i,:] = [ 5. 6. 206. 212.]
101 cord_individual_obj[indivial_i,:] = [ 6. 6. 193. 199.]
102 cord_individual_obj[indivial_i,:] = [ 7. 6. 179. 185.]
103 cord_individual_obj[indivial_i,:] = [ 8. 6. 143. 149.]
104 cord_individual_obj[indivial_i,:] = [ 9. 6. 212. 218.]
105 cord_individual_obj[indivial_i,:] = [ 10. 6. 139. 145.]
106 cord_individual_obj[indivial_i,:] = [ 11. 7. 174. 181.]
107 cord_individual_obj[indivial_i,:] = [ 12. 6. 173. 179.]
108 cord_individual_obj[indivial_i,:] = [ 13. 6. 37. 43.]
109 cord_individual_obj[indivial_i,:] = [ 14. 6. 123. 129.]
110 cord_individual_obj[indivial_i,:] = [ 15. 5. 197. 202.]
111 cord_individual_obj[indivial_i,:] = [ 16. 7. 126. 133.]
112 cord_individual_obj[indivial_i,:] = [ 17. 9. 208. 217.]
113 cord_individual_obj[indivial_i,:] = [ 18. 7. 140. 147.]
114 cord_individual_obj[indivial_i,:] = [ 19. 6. 178. 184.]
115 cord_individual_obj[indivial_i,:] = [ 20. 6. 208. 214.]
116 cord_individual_obj[indivial_i,:] = [ 21. 6. 232. 238.]
117 cord_individual_obj[indivial_i,:] = [ 22. 8. 89. 97.]
118 cord_individual_obj[indivial_i,:] = [ 23. 7. 173. 180.]
119 cord_individual_obj[indivial_i,:] = [ 24. 6. 139. 145.]
120
121 min(cord_individual_obj[:,3]) = 43.0
122 historl_G_best_iter[iter, 3] = 43.0
123 Begin iteration:
124
125 iter = 3
126 cord_individual_obj[indivial_i,:] = [ 0. 7. 152. 159.]
127 cord_individual_obj[indivial_i,:] = [ 1. 7. 194. 201.]
128 cord_individual_obj[indivial_i,:] = [ 2. 7. 168. 175.]
129 cord_individual_obj[indivial_i,:] = [ 3. 6. 166. 172.]
130 cord_individual_obj[indivial_i,:] = [ 4. 6. 124. 130.]
131 cord_individual_obj[indivial_i,:] = [ 5. 6. 179. 185.]
132 cord_individual_obj[indivial_i,:] = [ 6. 6. 241. 247.]
133 cord_individual_obj[indivial_i,:] = [ 7. 7. 96. 103.]
134 cord_individual_obj[indivial_i,:] = [ 8. 5. 137. 142.]
135 cord_individual_obj[indivial_i,:] = [ 9. 5. 71. 76.]
136 cord_individual_obj[indivial_i,:] = [ 10. 6. 168. 174.]
137 cord_individual_obj[indivial_i,:] = [ 11. 7. 117. 124.]
138 cord_individual_obj[indivial_i,:] = [ 12. 6. 133. 139.]
139 cord_individual_obj[indivial_i,:] = [ 13. 6. 187. 193.]
140 cord_individual_obj[indivial_i,:] = [ 14. 7. 163. 170.]
141 cord_individual_obj[indivial_i,:] = [ 15. 6. 87. 93.]
142 cord_individual_obj[indivial_i,:] = [ 16. 7. 73. 80.]
143 cord_individual_obj[indivial_i,:] = [ 17. 6. 173. 179.]
144 cord_individual_obj[indivial_i,:] = [ 18. 6. 128. 134.]
145 cord_individual_obj[indivial_i,:] = [ 19. 8. 137. 145.]
146 cord_individual_obj[indivial_i,:] = [ 20. 7. 204. 211.]
147 cord_individual_obj[indivial_i,:] = [ 21. 6. 37. 43.]
148 cord_individual_obj[indivial_i,:] = [ 22. 7. 197. 204.]
149 cord_individual_obj[indivial_i,:] = [ 23. 6. 196. 202.]
150 cord_individual_obj[indivial_i,:] = [ 24. 6. 238. 244.]
151
152 min(cord_individual_obj[:,3]) = 43.0
153 historl_G_best_iter[iter, 3] = 43.0
154 Begin iteration:
155
156 iter = 4
157 cord_individual_obj[indivial_i,:] = [ 0. 7. 153. 160.]
158 cord_individual_obj[indivial_i,:] = [ 1. 6. 156. 162.]
159 cord_individual_obj[indivial_i,:] = [ 2. 7. 179. 186.]
160 cord_individual_obj[indivial_i,:] = [ 3. 6. 192. 198.]
161 cord_individual_obj[indivial_i,:] = [ 4. 6. 109. 115.]
162 cord_individual_obj[indivial_i,:] = [ 5. 6. 149. 155.]
163 cord_individual_obj[indivial_i,:] = [ 6. 6. 37. 43.]

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164 cord_individual_obj[indivial_i,:] = [ 7. 7. 148. 155.]
165 cord_individual_obj[indivial_i,:] = [ 8. 6. 111. 117.]
166 cord_individual_obj[indivial_i,:] = [ 9. 6. 112. 118.]
167 cord_individual_obj[indivial_i,:] = [10. 6. 139. 145.]
168 cord_individual_obj[indivial_i,:] = [11. 7. 129. 136.]
169 cord_individual_obj[indivial_i,:] = [12. 6. 110. 116.]
170 cord_individual_obj[indivial_i,:] = [13. 6. 187. 193.]
171 cord_individual_obj[indivial_i,:] = [14. 7. 141. 148.]
172 cord_individual_obj[indivial_i,:] = [15. 7. 115. 122.]
173 cord_individual_obj[indivial_i,:] = [16. 6. 92. 98.]
174 cord_individual_obj[indivial_i,:] = [17. 7. 195. 202.]
175 cord_individual_obj[indivial_i,:] = [18. 7. 72. 79.]
176 cord_individual_obj[indivial_i,:] = [19. 6. 137. 143.]
177 cord_individual_obj[indivial_i,:] = [20. 8. 226. 234.]
178 cord_individual_obj[indivial_i,:] = [21. 6. 189. 195.]
179 cord_individual_obj[indivial_i,:] = [22. 7. 165. 172.]
180 cord_individual_obj[indivial_i,:] = [23. 7. 189. 196.]
181 cord_individual_obj[indivial_i,:] = [24. 7. 127. 134.]
182
183 min(cord_individual_obj[:,3]) = 43.0
184 historl_G_best_iter[iter,3] = 43.0
185 Begin iteration:
186
187 iter = 5
188 cord_individual_obj[indivial_i,:] = [ 0. 6. 164. 170.]
189 cord_individual_obj[indivial_i,:] = [ 1. 7. 174. 181.]
190 cord_individual_obj[indivial_i,:] = [ 2. 8. 155. 163.]
191 cord_individual_obj[indivial_i,:] = [ 3. 5. 160. 165.]
192 cord_individual_obj[indivial_i,:] = [ 4. 7. 123. 130.]
193 cord_individual_obj[indivial_i,:] = [ 5. 6. 125. 131.]
194 cord_individual_obj[indivial_i,:] = [ 6. 6. 228. 234.]
195 cord_individual_obj[indivial_i,:] = [ 7. 6. 93. 99.]
196 cord_individual_obj[indivial_i,:] = [ 8. 6. 100. 106.]
197 cord_individual_obj[indivial_i,:] = [ 9. 7. 180. 187.]
198 cord_individual_obj[indivial_i,:] = [10. 6. 146. 152.]
199 cord_individual_obj[indivial_i,:] = [11. 7. 125. 132.]
200 cord_individual_obj[indivial_i,:] = [12. 6. 164. 170.]
201 cord_individual_obj[indivial_i,:] = [13. 7. 133. 140.]
202 cord_individual_obj[indivial_i,:] = [14. 6. 132. 138.]
203 cord_individual_obj[indivial_i,:] = [15. 7. 95. 102.]
204 cord_individual_obj[indivial_i,:] = [16. 6. 70. 76.]
205 cord_individual_obj[indivial_i,:] = [17. 6. 144. 150.]
206 cord_individual_obj[indivial_i,:] = [18. 6. 101. 107.]
207 cord_individual_obj[indivial_i,:] = [19. 6. 121. 127.]
208 cord_individual_obj[indivial_i,:] = [20. 6. 37. 43.]
209 cord_individual_obj[indivial_i,:] = [21. 7. 171. 178.]
210 cord_individual_obj[indivial_i,:] = [22. 7. 151. 158.]
211 cord_individual_obj[indivial_i,:] = [23. 8. 205. 213.]
212 cord_individual_obj[indivial_i,:] = [24. 7. 108. 115.]
213
214 min(cord_individual_obj[:,3]) = 43.0
215 historl_G_best_iter[iter,3] = 43.0
216 Begin iteration:
217
218 iter = 6
219 cord_individual_obj[indivial_i,:] = [ 0. 6. 107. 113.]
220 cord_individual_obj[indivial_i,:] = [ 1. 7. 81. 88.]
221 cord_individual_obj[indivial_i,:] = [ 2. 6. 80. 86.]
222 cord_individual_obj[indivial_i,:] = [ 3. 4. 95. 99.]
223 cord_individual_obj[indivial_i,:] = [ 4. 6. 66. 72.]
224 cord_individual_obj[indivial_i,:] = [ 5. 7. 142. 149.]
225 cord_individual_obj[indivial_i,:] = [ 6. 6. 37. 43.]
226 cord_individual_obj[indivial_i,:] = [ 7. 7. 87. 94.]
227 cord_individual_obj[indivial_i,:] = [ 8. 6. 155. 161.]
228 cord_individual_obj[indivial_i,:] = [ 9. 7. 92. 99.]
229 cord_individual_obj[indivial_i,:] = [10. 7. 123. 130.]
230 cord_individual_obj[indivial_i,:] = [11. 7. 147. 154.]
231 cord_individual_obj[indivial_i,:] = [12. 7. 105. 112.]
232 cord_individual_obj[indivial_i,:] = [13. 5. 78. 83.]
233 cord_individual_obj[indivial_i,:] = [14. 8. 97. 105.]
234 cord_individual_obj[indivial_i,:] = [15. 6. 159. 165.]
235 cord_individual_obj[indivial_i,:] = [16. 6. 62. 68.]
236 cord_individual_obj[indivial_i,:] = [17. 7. 173. 180.]
237 cord_individual_obj[indivial_i,:] = [18. 5. 85. 90.]
238 cord_individual_obj[indivial_i,:] = [19. 6. 69. 75.]
239 cord_individual_obj[indivial_i,:] = [20. 6. 188. 194.]
240 cord_individual_obj[indivial_i,:] = [21. 6. 115. 121.]
241 cord_individual_obj[indivial_i,:] = [22. 6. 108. 114.]
242 cord_individual_obj[indivial_i,:] = [23. 7. 45. 52.]
243 cord_individual_obj[indivial_i,:] = [24. 7. 68. 75.]
244
245 min(cord_individual_obj[:,3]) = 43.0
246 historl_G_best_iter[iter,3] = 43.0
247 Begin iteration:

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248
249 iter = 7
250 cord_individual_obj[indivial_i, :] = [ 0.  5. 59. 64.]
251 cord_individual_obj[indivial_i, :] = [ 1.  7. 79. 86.]
252 cord_individual_obj[indivial_i, :] = [ 2.  6. 84. 90.]
253 cord_individual_obj[indivial_i, :] = [ 3.  6. 81. 87.]
254 cord_individual_obj[indivial_i, :] = [ 4.  6. 120. 126.]
255 cord_individual_obj[indivial_i, :] = [ 5.  5. 130. 135.]
256 cord_individual_obj[indivial_i, :] = [ 6.  6. 240. 246.]
257 cord_individual_obj[indivial_i, :] = [ 7.  7. 86. 93.]
258 cord_individual_obj[indivial_i, :] = [ 8.  7. 87. 94.]
259 cord_individual_obj[indivial_i, :] = [ 9.  6. 61. 67.]
260 cord_individual_obj[indivial_i, :] = [10.  7. 91. 98.]
261 cord_individual_obj[indivial_i, :] = [11.  6. 129. 135.]
262 cord_individual_obj[indivial_i, :] = [12.  6. 114. 120.]
263 cord_individual_obj[indivial_i, :] = [13.  6. 102. 108.]
264 cord_individual_obj[indivial_i, :] = [14.  8. 102. 110.]
265 cord_individual_obj[indivial_i, :] = [15.  7. 81. 88.]
266 cord_individual_obj[indivial_i, :] = [16.  7. 56. 63.]
267 cord_individual_obj[indivial_i, :] = [17.  7. 113. 120.]
268 cord_individual_obj[indivial_i, :] = [18.  6. 109. 115.]
269 cord_individual_obj[indivial_i, :] = [19.  6. 76. 82.]
270 cord_individual_obj[indivial_i, :] = [20.  6. 37. 43.]
271 cord_individual_obj[indivial_i, :] = [21.  7. 168. 175.]
272 cord_individual_obj[indivial_i, :] = [22.  8. 114. 122.]
273 cord_individual_obj[indivial_i, :] = [23.  7. 127. 134.]
274 cord_individual_obj[indivial_i, :] = [24.  7. 114. 121.]
275
276 min(cord_individual_obj[:, 3]) = 43.0
277 historl_G_best_iter[iter, 3] = 43.0
278 Begin iteration:
279
280 iter = 8
281 cord_individual_obj[indivial_i, :] = [ 0.  6. 108. 114.]
282 cord_individual_obj[indivial_i, :] = [ 1.  5. 139. 144.]
283 cord_individual_obj[indivial_i, :] = [ 2.  7. 122. 129.]
284 cord_individual_obj[indivial_i, :] = [ 3.  7. 184. 191.]
285 cord_individual_obj[indivial_i, :] = [ 4.  7. 98. 105.]
286 cord_individual_obj[indivial_i, :] = [ 5.  7. 151. 158.]
287 cord_individual_obj[indivial_i, :] = [ 6.  6. 37. 43.]
288 cord_individual_obj[indivial_i, :] = [ 7.  8. 154. 162.]
289 cord_individual_obj[indivial_i, :] = [ 8.  6. 93. 99.]
290 cord_individual_obj[indivial_i, :] = [ 9.  6. 152. 158.]
291 cord_individual_obj[indivial_i, :] = [10.  7. 147. 154.]
292 cord_individual_obj[indivial_i, :] = [11.  6. 84. 90.]
293 cord_individual_obj[indivial_i, :] = [12.  6. 126. 132.]
294 cord_individual_obj[indivial_i, :] = [13.  6. 133. 139.]
295 cord_individual_obj[indivial_i, :] = [14.  6. 101. 107.]
296 cord_individual_obj[indivial_i, :] = [15.  8. 127. 135.]
297 cord_individual_obj[indivial_i, :] = [16.  6. 118. 124.]
298 cord_individual_obj[indivial_i, :] = [17.  6. 172. 178.]
299 cord_individual_obj[indivial_i, :] = [18.  8. 72. 80.]
300 cord_individual_obj[indivial_i, :] = [19.  6. 165. 171.]
301 cord_individual_obj[indivial_i, :] = [20.  7. 164. 171.]
302 cord_individual_obj[indivial_i, :] = [21.  7. 183. 190.]
303 cord_individual_obj[indivial_i, :] = [22.  6. 130. 136.]
304 cord_individual_obj[indivial_i, :] = [23.  8. 197. 205.]
305 cord_individual_obj[indivial_i, :] = [24.  8. 141. 149.]
306
307 min(cord_individual_obj[:, 3]) = 43.0
308 historl_G_best_iter[iter, 3] = 43.0
309 Begin iteration:
310
311 iter = 9
312 cord_individual_obj[indivial_i, :] = [ 0.  6. 131. 137.]
313 cord_individual_obj[indivial_i, :] = [ 1.  6. 157. 163.]
314 cord_individual_obj[indivial_i, :] = [ 2.  8. 88. 96.]
315 cord_individual_obj[indivial_i, :] = [ 3.  5. 168. 173.]
316 cord_individual_obj[indivial_i, :] = [ 4.  6. 147. 153.]
317 cord_individual_obj[indivial_i, :] = [ 5.  7. 182. 189.]
318 cord_individual_obj[indivial_i, :] = [ 6.  6. 238. 244.]
319 cord_individual_obj[indivial_i, :] = [ 7.  7. 183. 190.]
320 cord_individual_obj[indivial_i, :] = [ 8.  7. 100. 107.]
321 cord_individual_obj[indivial_i, :] = [ 9.  7. 84. 91.]
322 cord_individual_obj[indivial_i, :] = [10.  7. 133. 140.]
323 cord_individual_obj[indivial_i, :] = [11.  7. 101. 108.]
324 cord_individual_obj[indivial_i, :] = [12.  6. 178. 184.]
325 cord_individual_obj[indivial_i, :] = [13.  7. 190. 197.]
326 cord_individual_obj[indivial_i, :] = [14.  7. 96. 103.]
327 cord_individual_obj[indivial_i, :] = [15.  6. 163. 169.]
328 cord_individual_obj[indivial_i, :] = [16.  5. 137. 142.]
329 cord_individual_obj[indivial_i, :] = [17.  5. 85. 90.]
330 cord_individual_obj[indivial_i, :] = [18.  6. 66. 72.]
331 cord_individual_obj[indivial_i, :] = [19.  7. 93. 100.]

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332     cord_individual_obj[indivial_i, :] = [ 20.  7. 118. 125.]
333     cord_individual_obj[indivial_i, :] = [ 21.  7. 132. 139.]
334     cord_individual_obj[indivial_i, :] = [ 22.  6. 160. 166.]
335     cord_individual_obj[indivial_i, :] = [23.  6. 37. 43.]
336     cord_individual_obj[indivial_i, :] = [ 24.  7. 116. 123.]
337
338 min(cord_individual_obj[:, 3]) = 43.0
339 histol_G_best_iter[iter, 3] = 43.0
340 Begin iteration:
341
342 iter = 10
343     cord_individual_obj[indivial_i, :] = [ 0.  6. 140. 146.]
344     cord_individual_obj[indivial_i, :] = [ 1.  7. 133. 140.]
345     cord_individual_obj[indivial_i, :] = [ 2.  6. 144. 150.]
346     cord_individual_obj[indivial_i, :] = [ 3.  4. 140. 144.]
347     cord_individual_obj[indivial_i, :] = [ 4.  7. 127. 134.]
348     cord_individual_obj[indivial_i, :] = [ 5.  7. 112. 119.]
349     cord_individual_obj[indivial_i, :] = [ 6.  6. 37. 43.]
350     cord_individual_obj[indivial_i, :] = [ 7.  6. 143. 149.]
351     cord_individual_obj[indivial_i, :] = [ 8.  6. 114. 120.]
352     cord_individual_obj[indivial_i, :] = [ 9.  5. 180. 185.]
353     cord_individual_obj[indivial_i, :] = [10.  8. 86. 94.]
354     cord_individual_obj[indivial_i, :] = [11.  6. 124. 130.]
355     cord_individual_obj[indivial_i, :] = [12.  7. 106. 113.]
356     cord_individual_obj[indivial_i, :] = [13.  7. 174. 181.]
357     cord_individual_obj[indivial_i, :] = [14.  7. 140. 147.]
358     cord_individual_obj[indivial_i, :] = [15.  7. 155. 162.]
359     cord_individual_obj[indivial_i, :] = [16.  6. 69. 75.]
360     cord_individual_obj[indivial_i, :] = [17.  7. 107. 114.]
361     cord_individual_obj[indivial_i, :] = [18.  6. 102. 108.]
362     cord_individual_obj[indivial_i, :] = [19.  6. 130. 136.]
363     cord_individual_obj[indivial_i, :] = [20.  8. 89. 97.]
364     cord_individual_obj[indivial_i, :] = [21.  6. 161. 167.]
365     cord_individual_obj[indivial_i, :] = [22.  6. 123. 129.]
366     cord_individual_obj[indivial_i, :] = [23.  7. 187. 194.]
367     cord_individual_obj[indivial_i, :] = [24.  8. 115. 123.]
368
369 min(cord_individual_obj[:, 3]) = 43.0
370 histol_G_best_iter[iter, 3] = 43.0
371 Begin iteration:
372
373 iter = 11
374     cord_individual_obj[indivial_i, :] = [ 0.  6. 122. 128.]
375     cord_individual_obj[indivial_i, :] = [ 1.  8. 142. 150.]
376     cord_individual_obj[indivial_i, :] = [ 2.  7. 134. 141.]
377     cord_individual_obj[indivial_i, :] = [ 3.  5. 151. 156.]
378     cord_individual_obj[indivial_i, :] = [ 4.  6. 164. 170.]
379     cord_individual_obj[indivial_i, :] = [ 5.  7. 140. 147.]
380     cord_individual_obj[indivial_i, :] = [ 6.  6. 228. 234.]
381     cord_individual_obj[indivial_i, :] = [ 7.  6. 103. 109.]
382     cord_individual_obj[indivial_i, :] = [ 8.  6. 139. 145.]
383     cord_individual_obj[indivial_i, :] = [ 9.  7. 95. 102.]
384     cord_individual_obj[indivial_i, :] = [10.  8. 128. 136.]
385     cord_individual_obj[indivial_i, :] = [11.  7. 113. 120.]
386     cord_individual_obj[indivial_i, :] = [12.  7. 117. 124.]
387     cord_individual_obj[indivial_i, :] = [13.  6. 102. 108.]
388     cord_individual_obj[indivial_i, :] = [14.  7. 83. 90.]
389     cord_individual_obj[indivial_i, :] = [15.  7. 127. 134.]
390     cord_individual_obj[indivial_i, :] = [16.  7. 61. 68.]
391     cord_individual_obj[indivial_i, :] = [17.  7. 63. 70.]
392     cord_individual_obj[indivial_i, :] = [18.  5. 83. 88.]
393     cord_individual_obj[indivial_i, :] = [19.  6. 160. 166.]
394     cord_individual_obj[indivial_i, :] = [20.  8. 216. 224.]
395     cord_individual_obj[indivial_i, :] = [21.  7. 91. 98.]
396     cord_individual_obj[indivial_i, :] = [22.  6. 76. 82.]
397     cord_individual_obj[indivial_i, :] = [23.  6. 37. 43.]
398     cord_individual_obj[indivial_i, :] = [24.  6. 137. 143.]
399
400 min(cord_individual_obj[:, 3]) = 43.0
401 histol_G_best_iter[iter, 3] = 43.0
402 Begin iteration:
403
404 iter = 12
405     cord_individual_obj[indivial_i, :] = [ 0.  6. 179. 185.]
406     cord_individual_obj[indivial_i, :] = [ 1.  6. 223. 229.]
407     cord_individual_obj[indivial_i, :] = [ 2.  5. 193. 198.]
408     cord_individual_obj[indivial_i, :] = [ 3.  6. 142. 148.]
409     cord_individual_obj[indivial_i, :] = [ 4.  8. 125. 133.]
410     cord_individual_obj[indivial_i, :] = [ 5.  6. 160. 166.]
411     cord_individual_obj[indivial_i, :] = [ 6.  6. 37. 43.]
412     cord_individual_obj[indivial_i, :] = [ 7.  7. 107. 114.]
413     cord_individual_obj[indivial_i, :] = [ 8.  6. 136. 142.]
414     cord_individual_obj[indivial_i, :] = [ 9.  6. 131. 137.]
415     cord_individual_obj[indivial_i, :] = [10.  7. 163. 170.]

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416 cord_individual_obj[indivial_i,:] = [ 11. 7. 98. 105.]
417 cord_individual_obj[indivial_i,:] = [ 12. 7. 129. 136.]
418 cord_individual_obj[indivial_i,:] = [ 13. 6. 187. 193.]
419 cord_individual_obj[indivial_i,:] = [ 14. 6. 180. 186.]
420 cord_individual_obj[indivial_i,:] = [ 15. 6. 122. 128.]
421 cord_individual_obj[indivial_i,:] = [ 16. 6. 173. 179.]
422 cord_individual_obj[indivial_i,:] = [ 17. 7. 189. 196.]
423 cord_individual_obj[indivial_i,:] = [ 18. 7. 124. 131.]
424 cord_individual_obj[indivial_i,:] = [ 19. 5. 124. 129.]
425 cord_individual_obj[indivial_i,:] = [ 20. 8. 233. 241.]
426 cord_individual_obj[indivial_i,:] = [ 21. 7. 221. 228.]
427 cord_individual_obj[indivial_i,:] = [ 22. 7. 145. 152.]
428 cord_individual_obj[indivial_i,:] = [ 23. 7. 178. 185.]
429 cord_individual_obj[indivial_i,:] = [ 24. 7. 121. 128.]
430
431 min(cord_individual_obj[:,3]) = 43.0
432 histol_G_best_iter[iter,3] = 43.0
433 Begin iteration:
434
435 iter = 13
436 cord_individual_obj[indivial_i,:] = [ 0. 7. 159. 166.]
437 cord_individual_obj[indivial_i,:] = [ 1. 6. 150. 156.]
438 cord_individual_obj[indivial_i,:] = [ 2. 7. 130. 137.]
439 cord_individual_obj[indivial_i,:] = [ 3. 6. 150. 156.]
440 cord_individual_obj[indivial_i,:] = [ 4. 7. 94. 101.]
441 cord_individual_obj[indivial_i,:] = [ 5. 7. 165. 172.]
442 cord_individual_obj[indivial_i,:] = [ 6. 6. 201. 207.]
443 cord_individual_obj[indivial_i,:] = [ 7. 8. 77. 85.]
444 cord_individual_obj[indivial_i,:] = [ 8. 7. 161. 168.]
445 cord_individual_obj[indivial_i,:] = [ 9. 6. 156. 162.]
446 cord_individual_obj[indivial_i,:] = [ 10. 7. 159. 166.]
447 cord_individual_obj[indivial_i,:] = [ 11. 7. 73. 80.]
448 cord_individual_obj[indivial_i,:] = [ 12. 8. 126. 134.]
449 cord_individual_obj[indivial_i,:] = [ 13. 7. 110. 117.]
450 cord_individual_obj[indivial_i,:] = [ 14. 7. 127. 134.]
451 cord_individual_obj[indivial_i,:] = [ 15. 7. 124. 131.]
452 cord_individual_obj[indivial_i,:] = [ 16. 7. 76. 83.]
453 cord_individual_obj[indivial_i,:] = [ 17. 6. 127. 133.]
454 cord_individual_obj[indivial_i,:] = [ 18. 7. 89. 96.]
455 cord_individual_obj[indivial_i,:] = [ 19. 7. 126. 133.]
456 cord_individual_obj[indivial_i,:] = [ 20. 6. 37. 43.]
457 cord_individual_obj[indivial_i,:] = [ 21. 6. 165. 171.]
458 cord_individual_obj[indivial_i,:] = [ 22. 7. 124. 131.]
459 cord_individual_obj[indivial_i,:] = [ 23. 7. 107. 114.]
460 cord_individual_obj[indivial_i,:] = [ 24. 6. 137. 143.]
461
462 min(cord_individual_obj[:,3]) = 43.0
463 histol_G_best_iter[iter,3] = 43.0
464 Begin iteration:
465
466 iter = 14
467 cord_individual_obj[indivial_i,:] = [ 0. 5. 150. 155.]
468 cord_individual_obj[indivial_i,:] = [ 1. 6. 93. 99.]
469 cord_individual_obj[indivial_i,:] = [ 2. 7. 73. 80.]
470 cord_individual_obj[indivial_i,:] = [ 3. 6. 122. 128.]
471 cord_individual_obj[indivial_i,:] = [ 4. 6. 111. 117.]
472 cord_individual_obj[indivial_i,:] = [ 5. 7. 138. 145.]
473 cord_individual_obj[indivial_i,:] = [ 6. 6. 37. 43.]
474 cord_individual_obj[indivial_i,:] = [ 7. 7. 110. 117.]
475 cord_individual_obj[indivial_i,:] = [ 8. 6. 145. 151.]
476 cord_individual_obj[indivial_i,:] = [ 9. 5. 135. 140.]
477 cord_individual_obj[indivial_i,:] = [ 10. 8. 95. 103.]
478 cord_individual_obj[indivial_i,:] = [ 11. 7. 128. 135.]
479 cord_individual_obj[indivial_i,:] = [ 12. 6. 158. 164.]
480 cord_individual_obj[indivial_i,:] = [ 13. 6. 227. 233.]
481 cord_individual_obj[indivial_i,:] = [ 14. 8. 149. 157.]
482 cord_individual_obj[indivial_i,:] = [ 15. 7. 150. 157.]
483 cord_individual_obj[indivial_i,:] = [ 16. 6. 94. 100.]
484 cord_individual_obj[indivial_i,:] = [ 17. 6. 88. 94.]
485 cord_individual_obj[indivial_i,:] = [ 18. 7. 111. 118.]
486 cord_individual_obj[indivial_i,:] = [ 19. 6. 118. 124.]
487 cord_individual_obj[indivial_i,:] = [ 20. 6. 196. 202.]
488 cord_individual_obj[indivial_i,:] = [ 21. 6. 106. 112.]
489 cord_individual_obj[indivial_i,:] = [ 22. 5. 193. 198.]
490 cord_individual_obj[indivial_i,:] = [ 23. 6. 72. 78.]
491 cord_individual_obj[indivial_i,:] = [ 24. 6. 96. 102.]
492
493 min(cord_individual_obj[:,3]) = 43.0
494 histol_G_best_iter[iter,3] = 43.0
495 Begin iteration:
496
497 iter = 15
498 cord_individual_obj[indivial_i,:] = [ 0. 6. 98. 104.]
499 cord_individual_obj[indivial_i,:] = [ 1. 8. 94. 102.]

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500 cord_individual_obj[indivial_i,:] = [ 2. 7. 126. 133.]
501 cord_individual_obj[indivial_i,:] = [ 3. 7. 106. 113.]
502 cord_individual_obj[indivial_i,:] = [ 4. 6. 86. 92.]
503 cord_individual_obj[indivial_i,:] = [ 5. 7. 119. 126.]
504 cord_individual_obj[indivial_i,:] = [ 6. 6. 228. 234.]
505 cord_individual_obj[indivial_i,:] = [ 7. 8. 122. 130.]
506 cord_individual_obj[indivial_i,:] = [ 8. 6. 121. 127.]
507 cord_individual_obj[indivial_i,:] = [ 9. 6. 111. 117.]
508 cord_individual_obj[indivial_i,:] = [10. 8. 126. 134.]
509 cord_individual_obj[indivial_i,:] = [11. 6. 87. 93.]
510 cord_individual_obj[indivial_i,:] = [12. 6. 131. 137.]
511 cord_individual_obj[indivial_i,:] = [13. 6. 37. 43.]
512 cord_individual_obj[indivial_i,:] = [14. 6. 91. 97.]
513 cord_individual_obj[indivial_i,:] = [15. 7. 109. 116.]
514 cord_individual_obj[indivial_i,:] = [16. 8. 78. 86.]
515 cord_individual_obj[indivial_i,:] = [17. 7. 105. 112.]
516 cord_individual_obj[indivial_i,:] = [18. 7. 92. 99.]
517 cord_individual_obj[indivial_i,:] = [19. 7. 87. 94.]
518 cord_individual_obj[indivial_i,:] = [20. 8. 91. 99.]
519 cord_individual_obj[indivial_i,:] = [21. 6. 126. 132.]
520 cord_individual_obj[indivial_i,:] = [22. 6. 90. 96.]
521 cord_individual_obj[indivial_i,:] = [23. 6. 87. 93.]
522 cord_individual_obj[indivial_i,:] = [24. 8. 71. 79.]
523
524 min(cord_individual_obj[:, 3]) = 43.0
525 histol_G_best_iter[iter, 3] = 43.0
526 Begin iteration:
527
528 iter = 16
529 cord_individual_obj[indivial_i,:] = [ 0. 7. 212. 219.]
530 cord_individual_obj[indivial_i,:] = [ 1. 7. 184. 191.]
531 cord_individual_obj[indivial_i,:] = [ 2. 8. 167. 175.]
532 cord_individual_obj[indivial_i,:] = [ 3. 6. 175. 181.]
533 cord_individual_obj[indivial_i,:] = [ 4. 8. 152. 160.]
534 cord_individual_obj[indivial_i,:] = [ 5. 6. 126. 132.]
535 cord_individual_obj[indivial_i,:] = [ 6. 6. 37. 43.]
536 cord_individual_obj[indivial_i,:] = [ 7. 7. 168. 175.]
537 cord_individual_obj[indivial_i,:] = [ 8. 8. 157. 165.]
538 cord_individual_obj[indivial_i,:] = [ 9. 7. 153. 160.]
539 cord_individual_obj[indivial_i,:] = [10. 8. 104. 112.]
540 cord_individual_obj[indivial_i,:] = [11. 7. 141. 148.]
541 cord_individual_obj[indivial_i,:] = [12. 7. 130. 137.]
542 cord_individual_obj[indivial_i,:] = [13. 6. 153. 159.]
543 cord_individual_obj[indivial_i,:] = [14. 6. 153. 159.]
544 cord_individual_obj[indivial_i,:] = [15. 6. 162. 168.]
545 cord_individual_obj[indivial_i,:] = [16. 6. 148. 154.]
546 cord_individual_obj[indivial_i,:] = [17. 6. 228. 234.]
547 cord_individual_obj[indivial_i,:] = [18. 7. 137. 144.]
548 cord_individual_obj[indivial_i,:] = [19. 6. 142. 148.]
549 cord_individual_obj[indivial_i,:] = [20. 7. 75. 82.]
550 cord_individual_obj[indivial_i,:] = [21. 7. 197. 204.]
551 cord_individual_obj[indivial_i,:] = [22. 7. 127. 134.]
552 cord_individual_obj[indivial_i,:] = [23. 7. 145. 152.]
553 cord_individual_obj[indivial_i,:] = [24. 7. 138. 145.]
554
555 min(cord_individual_obj[:, 3]) = 43.0
556 histol_G_best_iter[iter, 3] = 43.0
557 Begin iteration:
558
559 iter = 17
560 cord_individual_obj[indivial_i,:] = [ 0. 6. 104. 110.]
561 cord_individual_obj[indivial_i,:] = [ 1. 8. 133. 141.]
562 cord_individual_obj[indivial_i,:] = [ 2. 6. 106. 112.]
563 cord_individual_obj[indivial_i,:] = [ 3. 5. 108. 113.]
564 cord_individual_obj[indivial_i,:] = [ 4. 6. 116. 122.]
565 cord_individual_obj[indivial_i,:] = [ 5. 6. 150. 156.]
566 cord_individual_obj[indivial_i,:] = [ 6. 6. 201. 207.]
567 cord_individual_obj[indivial_i,:] = [ 7. 8. 80. 88.]
568 cord_individual_obj[indivial_i,:] = [ 8. 7. 106. 113.]
569 cord_individual_obj[indivial_i,:] = [ 9. 8. 46. 54.]
570 cord_individual_obj[indivial_i,:] = [10. 8. 123. 131.]
571 cord_individual_obj[indivial_i,:] = [11. 6. 72. 78.]
572 cord_individual_obj[indivial_i,:] = [12. 6. 159. 165.]
573 cord_individual_obj[indivial_i,:] = [13. 6. 64. 70.]
574 cord_individual_obj[indivial_i,:] = [14. 8. 58. 66.]
575 cord_individual_obj[indivial_i,:] = [15. 7. 76. 83.]
576 cord_individual_obj[indivial_i,:] = [16. 8. 85. 93.]
577 cord_individual_obj[indivial_i,:] = [17. 6. 37. 43.]
578 cord_individual_obj[indivial_i,:] = [18. 6. 97. 103.]
579 cord_individual_obj[indivial_i,:] = [19. 7. 70. 77.]
580 cord_individual_obj[indivial_i,:] = [20. 7. 82. 89.]
581 cord_individual_obj[indivial_i,:] = [21. 8. 93. 101.]
582 cord_individual_obj[indivial_i,:] = [22. 6. 118. 124.]
583 cord_individual_obj[indivial_i,:] = [23. 8. 65. 73.]

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584     cord_individual_obj[indivial_i, :] = [ 24.  8. 112. 120.]
585
586     min(cord_individual_obj[:, 3]) = 43.0
587     historl_G_best_iter[iter, 3] = 43.0
588 Begin iteration:
589
590 iter = 18
591     cord_individual_obj[indivial_i, :] = [ 0.  7. 98. 105.]
592     cord_individual_obj[indivial_i, :] = [ 1.  6. 84. 90.]
593     cord_individual_obj[indivial_i, :] = [ 2.  8. 117. 125.]
594     cord_individual_obj[indivial_i, :] = [ 3.  5. 73. 78.]
595     cord_individual_obj[indivial_i, :] = [ 4.  7. 86. 93.]
596     cord_individual_obj[indivial_i, :] = [ 5.  6. 151. 157.]
597     cord_individual_obj[indivial_i, :] = [ 6.  6. 37. 43.]
598     cord_individual_obj[indivial_i, :] = [ 7.  8. 96. 104.]
599     cord_individual_obj[indivial_i, :] = [ 8.  7. 101. 108.]
600     cord_individual_obj[indivial_i, :] = [ 9.  7. 82. 89.]
601     cord_individual_obj[indivial_i, :] = [ 10. 7. 118. 125.]
602     cord_individual_obj[indivial_i, :] = [ 11. 6. 86. 92.]
603     cord_individual_obj[indivial_i, :] = [ 12. 6. 100. 106.]
604     cord_individual_obj[indivial_i, :] = [ 13. 6. 111. 117.]
605     cord_individual_obj[indivial_i, :] = [ 14. 8. 125. 133.]
606     cord_individual_obj[indivial_i, :] = [ 15. 7. 100. 107.]
607     cord_individual_obj[indivial_i, :] = [ 16. 6. 72. 78.]
608     cord_individual_obj[indivial_i, :] = [ 17. 7. 230. 237.]
609     cord_individual_obj[indivial_i, :] = [ 18. 7. 152. 159.]
610     cord_individual_obj[indivial_i, :] = [ 19. 7. 73. 80.]
611     cord_individual_obj[indivial_i, :] = [ 20. 7. 86. 93.]
612     cord_individual_obj[indivial_i, :] = [ 21. 6. 124. 130.]
613     cord_individual_obj[indivial_i, :] = [ 22. 7. 97. 104.]
614     cord_individual_obj[indivial_i, :] = [ 23. 6. 90. 96.]
615     cord_individual_obj[indivial_i, :] = [ 24. 7. 118. 125.]
616
617     min(cord_individual_obj[:, 3]) = 43.0
618     historl_G_best_iter[iter, 3] = 43.0
619 Begin iteration:
620
621 iter = 19
622     cord_individual_obj[indivial_i, :] = [ 0.  6. 143. 149.]
623     cord_individual_obj[indivial_i, :] = [ 1.  8. 115. 123.]
624     cord_individual_obj[indivial_i, :] = [ 2.  7. 157. 164.]
625     cord_individual_obj[indivial_i, :] = [ 3.  6. 144. 150.]
626     cord_individual_obj[indivial_i, :] = [ 4.  6. 223. 229.]
627     cord_individual_obj[indivial_i, :] = [ 5.  6. 130. 136.]
628     cord_individual_obj[indivial_i, :] = [ 6.  6. 228. 234.]
629     cord_individual_obj[indivial_i, :] = [ 7.  8. 136. 144.]
630     cord_individual_obj[indivial_i, :] = [ 8.  7. 56. 63.]
631     cord_individual_obj[indivial_i, :] = [ 9.  9. 118. 127.]
632     cord_individual_obj[indivial_i, :] = [ 10. 7. 135. 142.]
633     cord_individual_obj[indivial_i, :] = [ 11. 6. 152. 158.]
634     cord_individual_obj[indivial_i, :] = [ 12. 6. 70. 76.]
635     cord_individual_obj[indivial_i, :] = [ 13. 6. 67. 73.]
636     cord_individual_obj[indivial_i, :] = [ 14. 8. 168. 176.]
637     cord_individual_obj[indivial_i, :] = [ 15. 8. 181. 189.]
638     cord_individual_obj[indivial_i, :] = [ 16. 7. 93. 100.]
639     cord_individual_obj[indivial_i, :] = [ 17. 6. 37. 43.]
640     cord_individual_obj[indivial_i, :] = [ 18. 8. 112. 120.]
641     cord_individual_obj[indivial_i, :] = [ 19. 6. 98. 104.]
642     cord_individual_obj[indivial_i, :] = [ 20. 7. 100. 107.]
643     cord_individual_obj[indivial_i, :] = [ 21. 7. 124. 131.]
644     cord_individual_obj[indivial_i, :] = [ 22. 7. 104. 111.]
645     cord_individual_obj[indivial_i, :] = [ 23. 7. 182. 189.]
646     cord_individual_obj[indivial_i, :] = [ 24. 7. 85. 92.]
647
648     min(cord_individual_obj[:, 3]) = 43.0
649     historl_G_best_iter[iter, 3] = 43.0
650 Begin iteration:
651
652 iter = 20
653     cord_individual_obj[indivial_i, :] = [ 0.  6. 108. 114.]
654     cord_individual_obj[indivial_i, :] = [ 1.  7. 121. 128.]
655     cord_individual_obj[indivial_i, :] = [ 2.  6. 138. 144.]
656     cord_individual_obj[indivial_i, :] = [ 3.  6. 137. 143.]
657     cord_individual_obj[indivial_i, :] = [ 4.  6. 128. 134.]
658     cord_individual_obj[indivial_i, :] = [ 5.  7. 124. 131.]
659     cord_individual_obj[indivial_i, :] = [ 6.  6. 37. 43.]
660     cord_individual_obj[indivial_i, :] = [ 7.  7. 125. 132.]
661     cord_individual_obj[indivial_i, :] = [ 8.  5. 122. 127.]
662     cord_individual_obj[indivial_i, :] = [ 9.  6. 94. 100.]
663     cord_individual_obj[indivial_i, :] = [ 10. 9. 148. 157.]
664     cord_individual_obj[indivial_i, :] = [ 11. 7. 99. 106.]
665     cord_individual_obj[indivial_i, :] = [ 12. 7. 115. 122.]
666     cord_individual_obj[indivial_i, :] = [ 13. 6. 103. 109.]
667     cord_individual_obj[indivial_i, :] = [ 14. 8. 102. 110.]

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668 cord_individual_obj[indivial_i,:] = [ 15. 8. 142. 150.]
669 cord_individual_obj[indivial_i,:] = [16. 6. 66. 72.]
670 cord_individual_obj[indivial_i,:] = [ 17. 7. 191. 198.]
671 cord_individual_obj[indivial_i,:] = [ 18. 6. 145. 151.]
672 cord_individual_obj[indivial_i,:] = [ 19. 6. 132. 138.]
673 cord_individual_obj[indivial_i,:] = [20. 7. 81. 88.]
674 cord_individual_obj[indivial_i,:] = [ 21. 6. 136. 142.]
675 cord_individual_obj[indivial_i,:] = [ 22. 8. 175. 183.]
676 cord_individual_obj[indivial_i,:] = [ 23. 8. 121. 129.]
677 cord_individual_obj[indivial_i,:] = [ 24. 6. 103. 109.]
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 = 174.0
689 Proportion_of_area = 0.16111111111111112
690 BEST_CHROM =
691 berth: [ 3. 4. 25.5 25.5 19. 2.5 17. 16.5 24. 11. 6.5 8.5 10. 14.5
692 24. ]
693 time: [3. 4. 3. 4. 0. 0. 4. 2. 1. 4. 0. 2. 0. 0. 0.]
694 num_QC: [6. 2. 3. 2. 3. 2. 4. 3. 2. 2. 3. 5. 3. 5. 5.]
695 Objective function values and some other indicators:
696 Obj0 = 6.00          Obj1 = 37.00          Obj0 + Obj1 = 43.00
697 Total movement of crane: 6.00
698 Total waiting time in berth position: 27.00
699 Total index of q during berthing: 721.00
700 Specific arrangement for each vessel:
701 V_id: 0      li: 6.0           xi: 3.0           bow of i: 0.0           tail of i: 6.0           gama_i0: 3.0           gama_i1: 3.0
    .          gama_i1 + 1: 4.0     gama_i1 - gama_i0: 0.0     duration_time_i: 1.0     demand_i: 100.0       work load_i:
100.0      work load gap_i: 0
702 V_id: 1      li: 8.0           xi: 4.0           bow of i: 0.0           tail of i: 8.0           gama_i0: 4.0           gama_i1: 6.0
    .          gama_i1 + 1: 7.0     gama_i1 - gama_i0: 2.0     duration_time_i: 3.0     demand_i: 120.0       work load_i:
120.0      work load gap_i: 0
703 V_id: 2      li: 9.0           xi: 25.5          bow of i: 21.0          tail of i: 30.0          gama_i0: 3.0           gama_i1: 3
    .          gama_i1 + 1: 4.0     gama_i1 - gama_i0: 0.0     duration_time_i: 1.0     demand_i: 60.0         work
load_i: 60.0      work load gap_i: 0
704 V_id: 3      li: 9.0           xi: 25.5          bow of i: 21.0          tail of i: 30.0          gama_i0: 4.0           gama_i1: 5
    .          gama_i1 + 1: 6.0     gama_i1 - gama_i0: 1.0     duration_time_i: 2.0     demand_i: 80.0         work
load_i: 80.0      work load gap_i: 0
705 V_id: 4      li: 4.0           xi: 19.0           bow of i: 17.0          tail of i: 21.0          gama_i0: 0.0           gama_i1: 1
    .          gama_i1 + 1: 2.0     gama_i1 - gama_i0: 1.0     duration_time_i: 2.0     demand_i: 120.0       work
load_i: 120.0      work load gap_i: 0
706 V_id: 5      li: 5.0           xi: 2.5            bow of i: 0.0           tail of i: 5.0           gama_i0: 0.0           gama_i1: 2
    .          gama_i1 + 1: 3.0     gama_i1 - gama_i0: 2.0     duration_time_i: 3.0     demand_i: 100.0       work load_i:
100.0      work load gap_i: 0
707 V_id: 6      li: 6.0           xi: 17.0           bow of i: 14.0          tail of i: 20.0          gama_i0: 4.0           gama_i1: 4
    .          gama_i1 + 1: 5.0     gama_i1 - gama_i0: 0.0     duration_time_i: 1.0     demand_i: 80.0         work
load_i: 80.0      work load gap_i: 0
708 V_id: 7      li: 9.0           xi: 16.5           bow of i: 12.0          tail of i: 21.0          gama_i0: 2.0           gama_i1: 3
    .          gama_i1 + 1: 4.0     gama_i1 - gama_i0: 1.0     duration_time_i: 2.0     demand_i: 80.0         work
load_i: 80.0      work load gap_i: 0
709 V_id: 8      li: 6.0           xi: 24.0           bow of i: 21.0          tail of i: 27.0          gama_i0: 1.0           gama_i1: 2
    .          gama_i1 + 1: 3.0     gama_i1 - gama_i0: 1.0     duration_time_i: 2.0     demand_i: 80.0         work
load_i: 80.0      work load gap_i: 0
710 V_id: 9      li: 6.0           xi: 11.0           bow of i: 8.0           tail of i: 14.0          gama_i0: 4.0           gama_i1: 6
    .          gama_i1 + 1: 7.0     gama_i1 - gama_i0: 2.0     duration_time_i: 3.0     demand_i: 100.0       work
load_i: 100.0      work load gap_i: 0
711 V_id: 10     li: 3.0           xi: 6.5            bow of i: 5.0           tail of i: 8.0           gama_i0: 0.0           gama_i1: 1
    .          gama_i1 + 1: 2.0     gama_i1 - gama_i0: 1.0     duration_time_i: 2.0     demand_i: 100.0       work load_i:
100.0      work load gap_i: 0
712 V_id: 11     li: 7.0           xi: 8.5            bow of i: 5.0           tail of i: 12.0          gama_i0: 2.0           gama_i1: 2
    .          gama_i1 + 1: 3.0     gama_i1 - gama_i0: 0.0     duration_time_i: 1.0     demand_i: 100.0       work
load_i: 100.0      work load gap_i: 0
713 V_id: 12     li: 4.0           xi: 10.0           bow of i: 8.0           tail of i: 12.0          gama_i0: 0.0           gama_i1: 1
    .          gama_i1 + 1: 1.0     gama_i1 - gama_i0: 0.0     duration_time_i: 1.0     demand_i: 60.0         work
load_i: 60.0      work load gap_i: 0
714 V_id: 13     li: 5.0           xi: 14.5           bow of i: 12.0          tail of i: 17.0          gama_i0: 0.0           gama_i1: 1
    .          gama_i1 + 1: 1.0     gama_i1 - gama_i0: 0.0     duration_time_i: 1.0     demand_i: 80.0         work
load_i: 80.0      work load gap_i: 0
715 V_id: 14     li: 6.0           xi: 24.0           bow of i: 21.0          tail of i: 27.0          gama_i0: 0.0           gama_i1: 1
    .          gama_i1 + 1: 1.0     gama_i1 - gama_i0: 0.0     duration_time_i: 1.0     demand_i: 60.0         work
load_i: 60.0      work load gap_i: 0
716
717 Algorithm finished and the total CPU time: 441 s
718 End
719

```