

unknown

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80 cord_individual_obj[indivial_i,:] = [ 16. 9. 141. 150.]
81 cord_individual_obj[indivial_i,:] = [ 17. 10. 289. 299.]
82 cord_individual_obj[indivial_i,:] = [ 18. 10. 141. 151.]
83 cord_individual_obj[indivial_i,:] = [ 19. 10. 131. 141.]
84 cord_individual_obj[indivial_i,:] = [ 20. 12. 141. 153.]
85 cord_individual_obj[indivial_i,:] = [ 21. 9. 142. 151.]
86 cord_individual_obj[indivial_i,:] = [ 22. 10. 123. 133.]
87 cord_individual_obj[indivial_i,:] = [ 23. 10. 126. 136.]
88 cord_individual_obj[indivial_i,:] = [ 24. 10. 64. 74.]
89
90 min(cord_individual_obj[:,3]) = 74.0
91 historl_G_best_iter[iter, 3] = 74.0
92 Begin iteration:
93
94 iter = 2
95 cord_individual_obj[indivial_i,:] = [ 0. 10. 116. 126.]
96 cord_individual_obj[indivial_i,:] = [ 1. 11. 107. 118.]
97 cord_individual_obj[indivial_i,:] = [ 2. 9. 118. 127.]
98 cord_individual_obj[indivial_i,:] = [ 3. 10. 158. 168.]
99 cord_individual_obj[indivial_i,:] = [ 4. 11. 144. 155.]
100 cord_individual_obj[indivial_i,:] = [ 5. 9. 164. 173.]
101 cord_individual_obj[indivial_i,:] = [ 6. 11. 90. 101.]
102 cord_individual_obj[indivial_i,:] = [ 7. 10. 173. 183.]
103 cord_individual_obj[indivial_i,:] = [ 8. 9. 64. 73.]
104 cord_individual_obj[indivial_i,:] = [ 9. 9. 128. 137.]
105 cord_individual_obj[indivial_i,:] = [ 10. 11. 114. 125.]
106 cord_individual_obj[indivial_i,:] = [ 11. 10. 142. 152.]
107 cord_individual_obj[indivial_i,:] = [ 12. 7. 94. 101.]
108 cord_individual_obj[indivial_i,:] = [ 13. 9. 162. 171.]
109 cord_individual_obj[indivial_i,:] = [ 14. 9. 148. 157.]
110 cord_individual_obj[indivial_i,:] = [ 15. 10. 172. 182.]
111 cord_individual_obj[indivial_i,:] = [ 16. 9. 154. 163.]
112 cord_individual_obj[indivial_i,:] = [ 17. 10. 64. 74.]
113 cord_individual_obj[indivial_i,:] = [ 18. 7. 189. 196.]
114 cord_individual_obj[indivial_i,:] = [ 19. 11. 74. 85.]
115 cord_individual_obj[indivial_i,:] = [ 20. 9. 112. 121.]
116 cord_individual_obj[indivial_i,:] = [ 21. 12. 146. 158.]
117 cord_individual_obj[indivial_i,:] = [ 22. 11. 98. 109.]
118 cord_individual_obj[indivial_i,:] = [ 23. 8. 118. 126.]
119 cord_individual_obj[indivial_i,:] = [ 24. 8. 214. 222.]
120
121 min(cord_individual_obj[:,3]) = 73.0
122 historl_G_best_iter[iter, 3] = 73.0
123 Begin iteration:
124
125 iter = 3
126 cord_individual_obj[indivial_i,:] = [ 0. 10. 156. 166.]
127 cord_individual_obj[indivial_i,:] = [ 1. 10. 176. 186.]
128 cord_individual_obj[indivial_i,:] = [ 2. 8. 92. 100.]
129 cord_individual_obj[indivial_i,:] = [ 3. 12. 120. 132.]
130 cord_individual_obj[indivial_i,:] = [ 4. 10. 130. 140.]
131 cord_individual_obj[indivial_i,:] = [ 5. 9. 89. 98.]
132 cord_individual_obj[indivial_i,:] = [ 6. 11. 133. 144.]
133 cord_individual_obj[indivial_i,:] = [ 7. 11. 125. 136.]
134 cord_individual_obj[indivial_i,:] = [ 8. 7. 123. 130.]
135 cord_individual_obj[indivial_i,:] = [ 9. 13. 95. 108.]
136 cord_individual_obj[indivial_i,:] = [ 10. 9. 123. 132.]
137 cord_individual_obj[indivial_i,:] = [ 11. 12. 122. 134.]
138 cord_individual_obj[indivial_i,:] = [ 12. 9. 115. 124.]
139 cord_individual_obj[indivial_i,:] = [ 13. 9. 145. 154.]
140 cord_individual_obj[indivial_i,:] = [ 14. 9. 100. 109.]
141 cord_individual_obj[indivial_i,:] = [ 15. 9. 83. 92.]
142 cord_individual_obj[indivial_i,:] = [ 16. 11. 111. 122.]
143 cord_individual_obj[indivial_i,:] = [ 17. 9. 98. 107.]
144 cord_individual_obj[indivial_i,:] = [ 18. 11. 86. 97.]
145 cord_individual_obj[indivial_i,:] = [ 19. 11. 86. 97.]
146 cord_individual_obj[indivial_i,:] = [ 20. 11. 160. 171.]
147 cord_individual_obj[indivial_i,:] = [ 21. 8. 136. 144.]
148 cord_individual_obj[indivial_i,:] = [ 22. 9. 124. 133.]
149 cord_individual_obj[indivial_i,:] = [ 23. 10. 185. 195.]
150 cord_individual_obj[indivial_i,:] = [ 24. 9. 64. 73.]
151
152 min(cord_individual_obj[:,3]) = 73.0
153 historl_G_best_iter[iter, 3] = 73.0
154 Begin iteration:
155
156 iter = 4
157 cord_individual_obj[indivial_i,:] = [ 0. 11. 132. 143.]
158 cord_individual_obj[indivial_i,:] = [ 1. 10. 162. 172.]
159 cord_individual_obj[indivial_i,:] = [ 2. 7. 149. 156.]
160 cord_individual_obj[indivial_i,:] = [ 3. 10. 111. 121.]
161 cord_individual_obj[indivial_i,:] = [ 4. 9. 155. 164.]
162 cord_individual_obj[indivial_i,:] = [ 5. 10. 136. 146.]
163 cord_individual_obj[indivial_i,:] = [ 6. 14. 116. 130.]

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164 cord_individual_obj[indivial_i,:] = [ 7. 9. 78. 87.]
165 cord_individual_obj[indivial_i,:] = [ 8. 9. 131. 140.]
166 cord_individual_obj[indivial_i,:] = [ 9. 10. 196. 206.]
167 cord_individual_obj[indivial_i,:] = [ 10. 9. 117. 126.]
168 cord_individual_obj[indivial_i,:] = [ 11. 9. 118. 127.]
169 cord_individual_obj[indivial_i,:] = [ 12. 7. 96. 103.]
170 cord_individual_obj[indivial_i,:] = [ 13. 11. 96. 107.]
171 cord_individual_obj[indivial_i,:] = [ 14. 10. 83. 93.]
172 cord_individual_obj[indivial_i,:] = [ 15. 8. 153. 161.]
173 cord_individual_obj[indivial_i,:] = [ 16. 10. 124. 134.]
174 cord_individual_obj[indivial_i,:] = [ 17. 9. 111. 120.]
175 cord_individual_obj[indivial_i,:] = [ 18. 8. 166. 174.]
176 cord_individual_obj[indivial_i,:] = [ 19. 15. 125. 140.]
177 cord_individual_obj[indivial_i,:] = [ 20. 11. 201. 212.]
178 cord_individual_obj[indivial_i,:] = [ 21. 10. 86. 96.]
179 cord_individual_obj[indivial_i,:] = [ 22. 9. 135. 144.]
180 cord_individual_obj[indivial_i,:] = [ 23. 9. 64. 73.]
181 cord_individual_obj[indivial_i,:] = [ 24. 10. 85. 95.]
182
183 min(cord_individual_obj[:,3]) = 73.0
184 historl_G_best_iter[iter,3] = 73.0
185 Begin iteration:
186
187 iter = 5
188 cord_individual_obj[indivial_i,:] = [ 0. 10. 124. 134.]
189 cord_individual_obj[indivial_i,:] = [ 1. 10. 193. 203.]
190 cord_individual_obj[indivial_i,:] = [ 2. 11. 126. 137.]
191 cord_individual_obj[indivial_i,:] = [ 3. 9. 109. 118.]
192 cord_individual_obj[indivial_i,:] = [ 4. 8. 107. 115.]
193 cord_individual_obj[indivial_i,:] = [ 5. 8. 112. 120.]
194 cord_individual_obj[indivial_i,:] = [ 6. 11. 118. 129.]
195 cord_individual_obj[indivial_i,:] = [ 7. 11. 102. 113.]
196 cord_individual_obj[indivial_i,:] = [ 8. 7. 107. 114.]
197 cord_individual_obj[indivial_i,:] = [ 9. 11. 83. 94.]
198 cord_individual_obj[indivial_i,:] = [ 10. 9. 156. 165.]
199 cord_individual_obj[indivial_i,:] = [ 11. 9. 100. 109.]
200 cord_individual_obj[indivial_i,:] = [ 12. 8. 132. 140.]
201 cord_individual_obj[indivial_i,:] = [ 13. 9. 167. 176.]
202 cord_individual_obj[indivial_i,:] = [ 14. 11. 177. 188.]
203 cord_individual_obj[indivial_i,:] = [ 15. 9. 97. 106.]
204 cord_individual_obj[indivial_i,:] = [ 16. 8. 114. 122.]
205 cord_individual_obj[indivial_i,:] = [ 17. 10. 141. 151.]
206 cord_individual_obj[indivial_i,:] = [ 18. 11. 104. 115.]
207 cord_individual_obj[indivial_i,:] = [ 19. 10. 79. 89.]
208 cord_individual_obj[indivial_i,:] = [ 20. 9. 64. 73.]
209 cord_individual_obj[indivial_i,:] = [ 21. 9. 120. 129.]
210 cord_individual_obj[indivial_i,:] = [ 22. 9. 111. 120.]
211 cord_individual_obj[indivial_i,:] = [ 23. 9. 72. 81.]
212 cord_individual_obj[indivial_i,:] = [ 24. 8. 121. 129.]
213
214 min(cord_individual_obj[:,3]) = 73.0
215 historl_G_best_iter[iter,3] = 73.0
216 Begin iteration:
217
218 iter = 6
219 cord_individual_obj[indivial_i,:] = [ 0. 11. 134. 145.]
220 cord_individual_obj[indivial_i,:] = [ 1. 9. 64. 73.]
221 cord_individual_obj[indivial_i,:] = [ 2. 9. 110. 119.]
222 cord_individual_obj[indivial_i,:] = [ 3. 10. 182. 192.]
223 cord_individual_obj[indivial_i,:] = [ 4. 9. 139. 148.]
224 cord_individual_obj[indivial_i,:] = [ 5. 9. 102. 111.]
225 cord_individual_obj[indivial_i,:] = [ 6. 12. 135. 147.]
226 cord_individual_obj[indivial_i,:] = [ 7. 10. 94. 104.]
227 cord_individual_obj[indivial_i,:] = [ 8. 7. 164. 171.]
228 cord_individual_obj[indivial_i,:] = [ 9. 13. 122. 135.]
229 cord_individual_obj[indivial_i,:] = [ 10. 10. 102. 112.]
230 cord_individual_obj[indivial_i,:] = [ 11. 11. 114. 125.]
231 cord_individual_obj[indivial_i,:] = [ 12. 9. 208. 217.]
232 cord_individual_obj[indivial_i,:] = [ 13. 8. 124. 132.]
233 cord_individual_obj[indivial_i,:] = [ 14. 9. 59. 68.]
234 cord_individual_obj[indivial_i,:] = [ 15. 8. 84. 92.]
235 cord_individual_obj[indivial_i,:] = [ 16. 9. 130. 139.]
236 cord_individual_obj[indivial_i,:] = [ 17. 10. 173. 183.]
237 cord_individual_obj[indivial_i,:] = [ 18. 10. 192. 202.]
238 cord_individual_obj[indivial_i,:] = [ 19. 11. 132. 143.]
239 cord_individual_obj[indivial_i,:] = [ 20. 10. 91. 101.]
240 cord_individual_obj[indivial_i,:] = [ 21. 9. 86. 95.]
241 cord_individual_obj[indivial_i,:] = [ 22. 10. 126. 136.]
242 cord_individual_obj[indivial_i,:] = [ 23. 9. 166. 175.]
243 cord_individual_obj[indivial_i,:] = [ 24. 10. 230. 240.]
244
245 min(cord_individual_obj[:,3]) = 68.0
246 historl_G_best_iter[iter,3] = 68.0
247 Begin iteration:

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248
249 iter = 7
250 cord_individual_obj[indivial_i, :] = [ 0. 10. 163. 173.]
251 cord_individual_obj[indivial_i, :] = [ 1. 8. 103. 111.]
252 cord_individual_obj[indivial_i, :] = [ 2. 9. 183. 192.]
253 cord_individual_obj[indivial_i, :] = [ 3. 11. 84. 95.]
254 cord_individual_obj[indivial_i, :] = [ 4. 9. 243. 252.]
255 cord_individual_obj[indivial_i, :] = [ 5. 8. 155. 163.]
256 cord_individual_obj[indivial_i, :] = [ 6. 9. 100. 109.]
257 cord_individual_obj[indivial_i, :] = [ 7. 11. 113. 124.]
258 cord_individual_obj[indivial_i, :] = [ 8. 8. 185. 193.]
259 cord_individual_obj[indivial_i, :] = [ 9. 12. 101. 113.]
260 cord_individual_obj[indivial_i, :] = [10. 9. 80. 89.]
261 cord_individual_obj[indivial_i, :] = [11. 11. 184. 195.]
262 cord_individual_obj[indivial_i, :] = [12. 8. 189. 197.]
263 cord_individual_obj[indivial_i, :] = [13. 10. 100. 110.]
264 cord_individual_obj[indivial_i, :] = [14. 11. 134. 145.]
265 cord_individual_obj[indivial_i, :] = [15. 9. 127. 136.]
266 cord_individual_obj[indivial_i, :] = [16. 10. 130. 140.]
267 cord_individual_obj[indivial_i, :] = [17. 9. 84. 93.]
268 cord_individual_obj[indivial_i, :] = [18. 12. 99. 111.]
269 cord_individual_obj[indivial_i, :] = [19. 9. 129. 138.]
270 cord_individual_obj[indivial_i, :] = [20. 11. 91. 102.]
271 cord_individual_obj[indivial_i, :] = [21. 8. 209. 217.]
272 cord_individual_obj[indivial_i, :] = [22. 10. 155. 165.]
273 cord_individual_obj[indivial_i, :] = [23. 14. 170. 184.]
274 cord_individual_obj[indivial_i, :] = [24. 9. 59. 68.]
275

276 min(cord_individual_obj[:, 3]) = 68.0
277 historl_G_best_iter[iter, 3] = 68.0
278 Begin iteration:
279
280 iter = 8
281 cord_individual_obj[indivial_i, :] = [ 0. 10. 76. 86.]
282 cord_individual_obj[indivial_i, :] = [ 1. 9. 91. 100.]
283 cord_individual_obj[indivial_i, :] = [ 2. 9. 108. 117.]
284 cord_individual_obj[indivial_i, :] = [ 3. 9. 117. 126.]
285 cord_individual_obj[indivial_i, :] = [ 4. 9. 59. 68.]
286 cord_individual_obj[indivial_i, :] = [ 5. 9. 124. 133.]
287 cord_individual_obj[indivial_i, :] = [ 6. 12. 94. 106.]
288 cord_individual_obj[indivial_i, :] = [ 7. 9. 96. 105.]
289 cord_individual_obj[indivial_i, :] = [ 8. 10. 166. 176.]
290 cord_individual_obj[indivial_i, :] = [ 9. 10. 134. 144.]
291 cord_individual_obj[indivial_i, :] = [10. 8. 111. 119.]
292 cord_individual_obj[indivial_i, :] = [11. 11. 182. 193.]
293 cord_individual_obj[indivial_i, :] = [12. 12. 142. 154.]
294 cord_individual_obj[indivial_i, :] = [13. 9. 108. 117.]
295 cord_individual_obj[indivial_i, :] = [14. 11. 151. 162.]
296 cord_individual_obj[indivial_i, :] = [15. 8. 206. 214.]
297 cord_individual_obj[indivial_i, :] = [16. 10. 132. 142.]
298 cord_individual_obj[indivial_i, :] = [17. 10. 109. 119.]
299 cord_individual_obj[indivial_i, :] = [18. 10. 129. 139.]
300 cord_individual_obj[indivial_i, :] = [19. 9. 151. 160.]
301 cord_individual_obj[indivial_i, :] = [20. 11. 152. 163.]
302 cord_individual_obj[indivial_i, :] = [21. 9. 98. 107.]
303 cord_individual_obj[indivial_i, :] = [22. 7. 168. 175.]
304 cord_individual_obj[indivial_i, :] = [23. 9. 156. 165.]
305 cord_individual_obj[indivial_i, :] = [24. 10. 152. 162.]
306

307 min(cord_individual_obj[:, 3]) = 68.0
308 historl_G_best_iter[iter, 3] = 68.0
309 Begin iteration:
310
311 iter = 9
312 cord_individual_obj[indivial_i, :] = [ 0. 12. 75. 87.]
313 cord_individual_obj[indivial_i, :] = [ 1. 10. 148. 158.]
314 cord_individual_obj[indivial_i, :] = [ 2. 9. 116. 125.]
315 cord_individual_obj[indivial_i, :] = [ 3. 11. 75. 86.]
316 cord_individual_obj[indivial_i, :] = [ 4. 11. 159. 170.]
317 cord_individual_obj[indivial_i, :] = [ 5. 9. 80. 89.]
318 cord_individual_obj[indivial_i, :] = [ 6. 11. 112. 123.]
319 cord_individual_obj[indivial_i, :] = [ 7. 13. 125. 138.]
320 cord_individual_obj[indivial_i, :] = [ 8. 11. 135. 146.]
321 cord_individual_obj[indivial_i, :] = [ 9. 11. 126. 137.]
322 cord_individual_obj[indivial_i, :] = [10. 11. 161. 172.]
323 cord_individual_obj[indivial_i, :] = [11. 10. 129. 139.]
324 cord_individual_obj[indivial_i, :] = [12. 9. 113. 122.]
325 cord_individual_obj[indivial_i, :] = [13. 10. 146. 156.]
326 cord_individual_obj[indivial_i, :] = [14. 11. 117. 128.]
327 cord_individual_obj[indivial_i, :] = [15. 9. 59. 68.]
328 cord_individual_obj[indivial_i, :] = [16. 10. 146. 156.]
329 cord_individual_obj[indivial_i, :] = [17. 9. 70. 79.]
330 cord_individual_obj[indivial_i, :] = [18. 12. 132. 144.]
331 cord_individual_obj[indivial_i, :] = [19. 9. 77. 86.]

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332 cord_individual_obj[indivial_i, :] = [ 20. 10. 173. 183.]
333 cord_individual_obj[indivial_i, :] = [ 21. 12. 127. 139.]
334 cord_individual_obj[indivial_i, :] = [ 22. 10. 100. 110.]
335 cord_individual_obj[indivial_i, :] = [ 23. 11. 95. 106.]
336 cord_individual_obj[indivial_i, :] = [ 24. 10. 174. 184.]
337
338 min(cord_individual_obj[:, 3]) = 68.0
339 histol_G_best_iter[iter, 3] = 68.0
340 Begin iteration:
341
342 iter = 10
343 cord_individual_obj[indivial_i, :] = [ 0. 12. 116. 128.]
344 cord_individual_obj[indivial_i, :] = [ 1. 12. 107. 119.]
345 cord_individual_obj[indivial_i, :] = [ 2. 9. 94. 103.]
346 cord_individual_obj[indivial_i, :] = [ 3. 12. 123. 135.]
347 cord_individual_obj[indivial_i, :] = [ 4. 11. 170. 181.]
348 cord_individual_obj[indivial_i, :] = [ 5. 9. 134. 143.]
349 cord_individual_obj[indivial_i, :] = [ 6. 11. 117. 128.]
350 cord_individual_obj[indivial_i, :] = [ 7. 13. 73. 86.]
351 cord_individual_obj[indivial_i, :] = [ 8. 9. 148. 157.]
352 cord_individual_obj[indivial_i, :] = [ 9. 13. 100. 113.]
353 cord_individual_obj[indivial_i, :] = [ 10. 8. 136. 144.]
354 cord_individual_obj[indivial_i, :] = [ 11. 11. 112. 123.]
355 cord_individual_obj[indivial_i, :] = [ 12. 11. 85. 96.]
356 cord_individual_obj[indivial_i, :] = [ 13. 12. 124. 136.]
357 cord_individual_obj[indivial_i, :] = [ 14. 10. 145. 155.]
358 cord_individual_obj[indivial_i, :] = [ 15. 11. 170. 181.]
359 cord_individual_obj[indivial_i, :] = [ 16. 10. 147. 157.]
360 cord_individual_obj[indivial_i, :] = [ 17. 11. 151. 162.]
361 cord_individual_obj[indivial_i, :] = [ 18. 11. 88. 99.]
362 cord_individual_obj[indivial_i, :] = [ 19. 10. 87. 97.]
363 cord_individual_obj[indivial_i, :] = [ 20. 10. 129. 139.]
364 cord_individual_obj[indivial_i, :] = [ 21. 9. 112. 121.]
365 cord_individual_obj[indivial_i, :] = [ 22. 11. 103. 114.]
366 cord_individual_obj[indivial_i, :] = [ 23. 10. 162. 172.]
367 cord_individual_obj[indivial_i, :] = [ 24. 9. 59. 68.]
368
369 min(cord_individual_obj[:, 3]) = 68.0
370 histol_G_best_iter[iter, 3] = 68.0
371 Begin iteration:
372
373 iter = 11
374 cord_individual_obj[indivial_i, :] = [ 0. 13. 165. 178.]
375 cord_individual_obj[indivial_i, :] = [ 1. 9. 152. 161.]
376 cord_individual_obj[indivial_i, :] = [ 2. 9. 146. 155.]
377 cord_individual_obj[indivial_i, :] = [ 3. 11. 92. 103.]
378 cord_individual_obj[indivial_i, :] = [ 4. 9. 59. 68.]
379 cord_individual_obj[indivial_i, :] = [ 5. 11. 68. 79.]
380 cord_individual_obj[indivial_i, :] = [ 6. 11. 124. 135.]
381 cord_individual_obj[indivial_i, :] = [ 7. 11. 123. 134.]
382 cord_individual_obj[indivial_i, :] = [ 8. 11. 120. 131.]
383 cord_individual_obj[indivial_i, :] = [ 9. 10. 175. 185.]
384 cord_individual_obj[indivial_i, :] = [ 10. 10. 112. 122.]
385 cord_individual_obj[indivial_i, :] = [ 11. 10. 115. 125.]
386 cord_individual_obj[indivial_i, :] = [ 12. 9. 116. 125.]
387 cord_individual_obj[indivial_i, :] = [ 13. 11. 156. 167.]
388 cord_individual_obj[indivial_i, :] = [ 14. 13. 69. 82.]
389 cord_individual_obj[indivial_i, :] = [ 15. 11. 96. 107.]
390 cord_individual_obj[indivial_i, :] = [ 16. 10. 192. 202.]
391 cord_individual_obj[indivial_i, :] = [ 17. 11. 72. 83.]
392 cord_individual_obj[indivial_i, :] = [ 18. 12. 93. 105.]
393 cord_individual_obj[indivial_i, :] = [ 19. 9. 128. 137.]
394 cord_individual_obj[indivial_i, :] = [ 20. 9. 98. 107.]
395 cord_individual_obj[indivial_i, :] = [ 21. 8. 141. 149.]
396 cord_individual_obj[indivial_i, :] = [ 22. 11. 114. 125.]
397 cord_individual_obj[indivial_i, :] = [ 23. 12. 158. 170.]
398 cord_individual_obj[indivial_i, :] = [ 24. 10. 178. 188.]
399
400 min(cord_individual_obj[:, 3]) = 68.0
401 histol_G_best_iter[iter, 3] = 68.0
402 Begin iteration:
403
404 iter = 12
405 cord_individual_obj[indivial_i, :] = [ 0. 10. 141. 151.]
406 cord_individual_obj[indivial_i, :] = [ 1. 9. 110. 119.]
407 cord_individual_obj[indivial_i, :] = [ 2. 10. 128. 138.]
408 cord_individual_obj[indivial_i, :] = [ 3. 11. 81. 92.]
409 cord_individual_obj[indivial_i, :] = [ 4. 9. 150. 159.]
410 cord_individual_obj[indivial_i, :] = [ 5. 9. 126. 135.]
411 cord_individual_obj[indivial_i, :] = [ 6. 12. 218. 230.]
412 cord_individual_obj[indivial_i, :] = [ 7. 11. 73. 84.]
413 cord_individual_obj[indivial_i, :] = [ 8. 8. 133. 141.]
414 cord_individual_obj[indivial_i, :] = [ 9. 10. 130. 140.]
415 cord_individual_obj[indivial_i, :] = [ 10. 13. 116. 129.]

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416 cord_individual_obj[indivial_i,:] = [ 11. 11. 92. 103.]
417 cord_individual_obj[indivial_i,:] = [ 12. 9. 104. 113.]
418 cord_individual_obj[indivial_i,:] = [ 13. 11. 167. 178.]
419 cord_individual_obj[indivial_i,:] = [ 14. 10. 184. 194.]
420 cord_individual_obj[indivial_i,:] = [ 15. 10. 163. 173.]
421 cord_individual_obj[indivial_i,:] = [16. 9. 59. 68.]
422 cord_individual_obj[indivial_i,:] = [ 17. 11. 92. 103.]
423 cord_individual_obj[indivial_i,:] = [ 18. 11. 137. 148.]
424 cord_individual_obj[indivial_i,:] = [ 19. 11. 89. 100.]
425 cord_individual_obj[indivial_i,:] = [ 20. 12. 183. 195.]
426 cord_individual_obj[indivial_i,:] = [ 21. 11. 196. 207.]
427 cord_individual_obj[indivial_i,:] = [ 22. 11. 124. 135.]
428 cord_individual_obj[indivial_i,:] = [ 23. 10. 101. 111.]
429 cord_individual_obj[indivial_i,:] = [ 24. 11. 147. 158.]
430
431 min(cord_individual_obj[:,3]) = 68.0
432 histol_G_best_iter[iter,3] = 68.0
433 Begin iteration:
434
435 iter = 13
436 cord_individual_obj[indivial_i,:] = [ 0. 11. 155. 166.]
437 cord_individual_obj[indivial_i,:] = [ 1. 10. 200. 210.]
438 cord_individual_obj[indivial_i,:] = [ 2. 9. 108. 117.]
439 cord_individual_obj[indivial_i,:] = [ 3. 12. 82. 94.]
440 cord_individual_obj[indivial_i,:] = [ 4. 9. 138. 147.]
441 cord_individual_obj[indivial_i,:] = [ 5. 10. 137. 147.]
442 cord_individual_obj[indivial_i,:] = [ 6. 9. 59. 68.]
443 cord_individual_obj[indivial_i,:] = [ 7. 11. 110. 121.]
444 cord_individual_obj[indivial_i,:] = [ 8. 11. 141. 152.]
445 cord_individual_obj[indivial_i,:] = [ 9. 10. 92. 102.]
446 cord_individual_obj[indivial_i,:] = [ 10. 8. 168. 176.]
447 cord_individual_obj[indivial_i,:] = [ 11. 11. 107. 118.]
448 cord_individual_obj[indivial_i,:] = [ 12. 9. 102. 111.]
449 cord_individual_obj[indivial_i,:] = [ 13. 10. 169. 179.]
450 cord_individual_obj[indivial_i,:] = [ 14. 10. 80. 90.]
451 cord_individual_obj[indivial_i,:] = [ 15. 10. 159. 169.]
452 cord_individual_obj[indivial_i,:] = [ 16. 10. 143. 153.]
453 cord_individual_obj[indivial_i,:] = [ 17. 8. 98. 106.]
454 cord_individual_obj[indivial_i,:] = [ 18. 10. 102. 112.]
455 cord_individual_obj[indivial_i,:] = [ 19. 9. 118. 127.]
456 cord_individual_obj[indivial_i,:] = [ 20. 10. 76. 86.]
457 cord_individual_obj[indivial_i,:] = [ 21. 8. 123. 131.]
458 cord_individual_obj[indivial_i,:] = [ 22. 11. 102. 113.]
459 cord_individual_obj[indivial_i,:] = [ 23. 10. 158. 168.]
460 cord_individual_obj[indivial_i,:] = [ 24. 8. 194. 202.]
461
462 min(cord_individual_obj[:,3]) = 68.0
463 histol_G_best_iter[iter,3] = 68.0
464 Begin iteration:
465
466 iter = 14
467 cord_individual_obj[indivial_i,:] = [ 0. 12. 142. 154.]
468 cord_individual_obj[indivial_i,:] = [ 1. 9. 59. 68.]
469 cord_individual_obj[indivial_i,:] = [ 2. 11. 103. 114.]
470 cord_individual_obj[indivial_i,:] = [ 3. 11. 102. 113.]
471 cord_individual_obj[indivial_i,:] = [ 4. 11. 127. 138.]
472 cord_individual_obj[indivial_i,:] = [ 5. 10. 83. 93.]
473 cord_individual_obj[indivial_i,:] = [ 6. 10. 117. 127.]
474 cord_individual_obj[indivial_i,:] = [ 7. 13. 136. 149.]
475 cord_individual_obj[indivial_i,:] = [ 8. 9. 136. 145.]
476 cord_individual_obj[indivial_i,:] = [ 9. 11. 183. 194.]
477 cord_individual_obj[indivial_i,:] = [ 10. 10. 129. 139.]
478 cord_individual_obj[indivial_i,:] = [ 11. 9. 103. 112.]
479 cord_individual_obj[indivial_i,:] = [ 12. 9. 92. 101.]
480 cord_individual_obj[indivial_i,:] = [ 13. 9. 148. 157.]
481 cord_individual_obj[indivial_i,:] = [ 14. 11. 125. 136.]
482 cord_individual_obj[indivial_i,:] = [ 15. 10. 212. 222.]
483 cord_individual_obj[indivial_i,:] = [ 16. 8. 156. 164.]
484 cord_individual_obj[indivial_i,:] = [ 17. 9. 82. 91.]
485 cord_individual_obj[indivial_i,:] = [ 18. 12. 185. 197.]
486 cord_individual_obj[indivial_i,:] = [ 19. 10. 101. 111.]
487 cord_individual_obj[indivial_i,:] = [ 20. 9. 117. 126.]
488 cord_individual_obj[indivial_i,:] = [ 21. 8. 74. 82.]
489 cord_individual_obj[indivial_i,:] = [ 22. 10. 101. 111.]
490 cord_individual_obj[indivial_i,:] = [ 23. 11. 135. 146.]
491 cord_individual_obj[indivial_i,:] = [ 24. 10. 93. 103.]
492
493 min(cord_individual_obj[:,3]) = 68.0
494 histol_G_best_iter[iter,3] = 68.0
495 Begin iteration:
496
497 iter = 15
498 cord_individual_obj[indivial_i,:] = [ 0. 11. 115. 126.]
499 cord_individual_obj[indivial_i,:] = [ 1. 9. 149. 158.]

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500 cord_individual_obj[indivial_i,:] = [ 2. 11. 160. 171.]
501 cord_individual_obj[indivial_i,:] = [ 3. 10. 124. 134.]
502 cord_individual_obj[indivial_i,:] = [ 4. 11. 128. 139.]
503 cord_individual_obj[indivial_i,:] = [ 5. 9. 97. 106.]
504 cord_individual_obj[indivial_i,:] = [ 6. 11. 171. 182.]
505 cord_individual_obj[indivial_i,:] = [ 7. 9. 103. 112.]
506 cord_individual_obj[indivial_i,:] = [ 8. 10. 162. 172.]
507 cord_individual_obj[indivial_i,:] = [ 9. 10. 131. 141.]
508 cord_individual_obj[indivial_i,:] = [ 10. 8. 224. 232.]
509 cord_individual_obj[indivial_i,:] = [ 11. 10. 102. 112.]
510 cord_individual_obj[indivial_i,:] = [ 12. 10. 78. 88.]
511 cord_individual_obj[indivial_i,:] = [ 13. 10. 192. 202.]
512 cord_individual_obj[indivial_i,:] = [ 14. 10. 129. 139.]
513 cord_individual_obj[indivial_i,:] = [ 15. 9. 59. 68.]
514 cord_individual_obj[indivial_i,:] = [ 16. 12. 106. 118.]
515 cord_individual_obj[indivial_i,:] = [ 17. 9. 158. 167.]
516 cord_individual_obj[indivial_i,:] = [ 18. 11. 110. 121.]
517 cord_individual_obj[indivial_i,:] = [ 19. 10. 204. 214.]
518 cord_individual_obj[indivial_i,:] = [ 20. 11. 99. 110.]
519 cord_individual_obj[indivial_i,:] = [ 21. 7. 166. 173.]
520 cord_individual_obj[indivial_i,:] = [ 22. 12. 113. 125.]
521 cord_individual_obj[indivial_i,:] = [ 23. 10. 142. 152.]
522 cord_individual_obj[indivial_i,:] = [ 24. 10. 156. 166.]
523
524 min(cord_individual_obj[:, 3]) = 68.0
525 histol_G_best_iter[iter, 3] = 68.0
526 Begin iteration:
527
528 iter = 16
529 cord_individual_obj[indivial_i,:] = [ 0. 11. 123. 134.]
530 cord_individual_obj[indivial_i,:] = [ 1. 11. 121. 132.]
531 cord_individual_obj[indivial_i,:] = [ 2. 11. 113. 124.]
532 cord_individual_obj[indivial_i,:] = [ 3. 9. 82. 91.]
533 cord_individual_obj[indivial_i,:] = [ 4. 9. 142. 151.]
534 cord_individual_obj[indivial_i,:] = [ 5. 10. 115. 125.]
535 cord_individual_obj[indivial_i,:] = [ 6. 8. 161. 169.]
536 cord_individual_obj[indivial_i,:] = [ 7. 11. 112. 123.]
537 cord_individual_obj[indivial_i,:] = [ 8. 9. 63. 72.]
538 cord_individual_obj[indivial_i,:] = [ 9. 9. 90. 99.]
539 cord_individual_obj[indivial_i,:] = [ 10. 9. 59. 68.]
540 cord_individual_obj[indivial_i,:] = [ 11. 10. 95. 105.]
541 cord_individual_obj[indivial_i,:] = [ 12. 8. 131. 139.]
542 cord_individual_obj[indivial_i,:] = [ 13. 11. 161. 172.]
543 cord_individual_obj[indivial_i,:] = [ 14. 9. 110. 119.]
544 cord_individual_obj[indivial_i,:] = [ 15. 11. 168. 179.]
545 cord_individual_obj[indivial_i,:] = [ 16. 9. 144. 153.]
546 cord_individual_obj[indivial_i,:] = [ 17. 9. 124. 133.]
547 cord_individual_obj[indivial_i,:] = [ 18. 8. 131. 139.]
548 cord_individual_obj[indivial_i,:] = [ 19. 11. 98. 109.]
549 cord_individual_obj[indivial_i,:] = [ 20. 11. 138. 149.]
550 cord_individual_obj[indivial_i,:] = [ 21. 8. 123. 131.]
551 cord_individual_obj[indivial_i,:] = [ 22. 10. 66. 76.]
552 cord_individual_obj[indivial_i,:] = [ 23. 12. 179. 191.]
553 cord_individual_obj[indivial_i,:] = [ 24. 12. 140. 152.]
554
555 min(cord_individual_obj[:, 3]) = 68.0
556 histol_G_best_iter[iter, 3] = 68.0
557 Begin iteration:
558
559 iter = 17
560 cord_individual_obj[indivial_i,:] = [ 0. 11. 155. 166.]
561 cord_individual_obj[indivial_i,:] = [ 1. 10. 161. 171.]
562 cord_individual_obj[indivial_i,:] = [ 2. 12. 85. 97.]
563 cord_individual_obj[indivial_i,:] = [ 3. 10. 82. 92.]
564 cord_individual_obj[indivial_i,:] = [ 4. 10. 96. 106.]
565 cord_individual_obj[indivial_i,:] = [ 5. 9. 231. 240.]
566 cord_individual_obj[indivial_i,:] = [ 6. 11. 109. 120.]
567 cord_individual_obj[indivial_i,:] = [ 7. 11. 120. 131.]
568 cord_individual_obj[indivial_i,:] = [ 8. 10. 138. 148.]
569 cord_individual_obj[indivial_i,:] = [ 9. 10. 125. 135.]
570 cord_individual_obj[indivial_i,:] = [ 10. 12. 168. 180.]
571 cord_individual_obj[indivial_i,:] = [ 11. 9. 100. 109.]
572 cord_individual_obj[indivial_i,:] = [ 12. 8. 193. 201.]
573 cord_individual_obj[indivial_i,:] = [ 13. 9. 172. 181.]
574 cord_individual_obj[indivial_i,:] = [ 14. 8. 146. 154.]
575 cord_individual_obj[indivial_i,:] = [ 15. 10. 117. 127.]
576 cord_individual_obj[indivial_i,:] = [ 16. 9. 182. 191.]
577 cord_individual_obj[indivial_i,:] = [ 17. 12. 113. 125.]
578 cord_individual_obj[indivial_i,:] = [ 18. 11. 68. 79.]
579 cord_individual_obj[indivial_i,:] = [ 19. 9. 108. 117.]
580 cord_individual_obj[indivial_i,:] = [ 20. 10. 193. 203.]
581 cord_individual_obj[indivial_i,:] = [ 21. 10. 168. 178.]
582 cord_individual_obj[indivial_i,:] = [ 22. 12. 100. 112.]
583 cord_individual_obj[indivial_i,:] = [ 23. 9. 59. 68.]

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584     cord_individual_obj[indivial_i, :] = [ 24. 10. 136. 146.]
585
586     min(cord_individual_obj[:, 3]) = 68.0
587     historl_G_best_iter[iter, 3] = 68.0
588 Begin iteration:
589
590 iter = 18
591     cord_individual_obj[indivial_i, :] = [ 0. 12. 134. 146.]
592     cord_individual_obj[indivial_i, :] = [ 1. 10. 161. 171.]
593     cord_individual_obj[indivial_i, :] = [ 2. 10. 117. 127.]
594     cord_individual_obj[indivial_i, :] = [ 3. 10. 110. 120.]
595     cord_individual_obj[indivial_i, :] = [ 4. 11. 153. 164.]
596     cord_individual_obj[indivial_i, :] = [ 5. 9. 59. 68.]
597     cord_individual_obj[indivial_i, :] = [ 6. 9. 127. 136.]
598     cord_individual_obj[indivial_i, :] = [ 7. 12. 122. 134.]
599     cord_individual_obj[indivial_i, :] = [ 8. 9. 110. 119.]
600     cord_individual_obj[indivial_i, :] = [ 9. 12. 158. 170.]
601     cord_individual_obj[indivial_i, :] = [ 10. 11. 155. 166.]
602     cord_individual_obj[indivial_i, :] = [ 11. 9. 125. 134.]
603     cord_individual_obj[indivial_i, :] = [ 12. 9. 139. 148.]
604     cord_individual_obj[indivial_i, :] = [ 13. 12. 141. 153.]
605     cord_individual_obj[indivial_i, :] = [ 14. 11. 102. 113.]
606     cord_individual_obj[indivial_i, :] = [ 15. 11. 168. 179.]
607     cord_individual_obj[indivial_i, :] = [ 16. 10. 142. 152.]
608     cord_individual_obj[indivial_i, :] = [ 17. 9. 70. 79.]
609     cord_individual_obj[indivial_i, :] = [ 18. 11. 141. 152.]
610     cord_individual_obj[indivial_i, :] = [ 19. 10. 94. 104.]
611     cord_individual_obj[indivial_i, :] = [ 20. 9. 145. 154.]
612     cord_individual_obj[indivial_i, :] = [ 21. 12. 127. 139.]
613     cord_individual_obj[indivial_i, :] = [ 22. 11. 96. 107.]
614     cord_individual_obj[indivial_i, :] = [ 23. 10. 86. 96.]
615     cord_individual_obj[indivial_i, :] = [ 24. 10. 164. 174.]
616
617     min(cord_individual_obj[:, 3]) = 68.0
618     historl_G_best_iter[iter, 3] = 68.0
619 Begin iteration:
620
621 iter = 19
622     cord_individual_obj[indivial_i, :] = [ 0. 10. 107. 117.]
623     cord_individual_obj[indivial_i, :] = [ 1. 11. 93. 104.]
624     cord_individual_obj[indivial_i, :] = [ 2. 9. 180. 189.]
625     cord_individual_obj[indivial_i, :] = [ 3. 10. 130. 140.]
626     cord_individual_obj[indivial_i, :] = [ 4. 10. 116. 126.]
627     cord_individual_obj[indivial_i, :] = [ 5. 12. 101. 113.]
628     cord_individual_obj[indivial_i, :] = [ 6. 11. 140. 151.]
629     cord_individual_obj[indivial_i, :] = [ 7. 11. 107. 118.]
630     cord_individual_obj[indivial_i, :] = [ 8. 9. 180. 189.]
631     cord_individual_obj[indivial_i, :] = [ 9. 9. 124. 133.]
632     cord_individual_obj[indivial_i, :] = [ 10. 10. 98. 108.]
633     cord_individual_obj[indivial_i, :] = [ 11. 11. 78. 89.]
634     cord_individual_obj[indivial_i, :] = [ 12. 8. 144. 152.]
635     cord_individual_obj[indivial_i, :] = [ 13. 8. 157. 165.]
636     cord_individual_obj[indivial_i, :] = [ 14. 10. 86. 96.]
637     cord_individual_obj[indivial_i, :] = [ 15. 9. 59. 68.]
638     cord_individual_obj[indivial_i, :] = [ 16. 8. 167. 175.]
639     cord_individual_obj[indivial_i, :] = [ 17. 10. 109. 119.]
640     cord_individual_obj[indivial_i, :] = [ 18. 11. 84. 95.]
641     cord_individual_obj[indivial_i, :] = [ 19. 8. 94. 102.]
642     cord_individual_obj[indivial_i, :] = [ 20. 11. 88. 99.]
643     cord_individual_obj[indivial_i, :] = [ 21. 10. 127. 137.]
644     cord_individual_obj[indivial_i, :] = [ 22. 11. 97. 108.]
645     cord_individual_obj[indivial_i, :] = [ 23. 9. 150. 159.]
646     cord_individual_obj[indivial_i, :] = [ 24. 10. 121. 131.]
647
648     min(cord_individual_obj[:, 3]) = 68.0
649     historl_G_best_iter[iter, 3] = 68.0
650 Begin iteration:
651
652 iter = 20
653     cord_individual_obj[indivial_i, :] = [ 0. 9. 118. 127.]
654     cord_individual_obj[indivial_i, :] = [ 1. 9. 92. 101.]
655     cord_individual_obj[indivial_i, :] = [ 2. 9. 59. 68.]
656     cord_individual_obj[indivial_i, :] = [ 3. 13. 95. 108.]
657     cord_individual_obj[indivial_i, :] = [ 4. 10. 104. 114.]
658     cord_individual_obj[indivial_i, :] = [ 5. 10. 112. 122.]
659     cord_individual_obj[indivial_i, :] = [ 6. 10. 138. 148.]
660     cord_individual_obj[indivial_i, :] = [ 7. 11. 125. 136.]
661     cord_individual_obj[indivial_i, :] = [ 8. 9. 164. 173.]
662     cord_individual_obj[indivial_i, :] = [ 9. 11. 128. 139.]
663     cord_individual_obj[indivial_i, :] = [ 10. 10. 103. 113.]
664     cord_individual_obj[indivial_i, :] = [ 11. 8. 110. 118.]
665     cord_individual_obj[indivial_i, :] = [ 12. 11. 126. 137.]
666     cord_individual_obj[indivial_i, :] = [ 13. 11. 131. 142.]
667     cord_individual_obj[indivial_i, :] = [ 14. 10. 152. 162.]

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668 cord_individual_obj[indivial_i,:] = [ 15. 11. 170. 181.]
669 cord_individual_obj[indivial_i,:] = [ 16. 10. 156. 166.]
670 cord_individual_obj[indivial_i,:] = [ 17. 10. 164. 174.]
671 cord_individual_obj[indivial_i,:] = [ 18. 8. 162. 170.]
672 cord_individual_obj[indivial_i,:] = [ 19. 9. 117. 126.]
673 cord_individual_obj[indivial_i,:] = [20. 11. 76. 87.]
674 cord_individual_obj[indivial_i,:] = [21. 8. 177. 185.]
675 cord_individual_obj[indivial_i,:] = [22. 10. 79. 89.]
676 cord_individual_obj[indivial_i,:] = [23. 11. 130. 141.]
677 cord_individual_obj[indivial_i,:] = [24. 11. 151. 162.]
678
679 min(cord_individual_obj[:, 3]) = 68.0
680 historl_G_best_iter[iter, 3] = 68.0
681 Iteration calculate over
682
683
684
685
686 All item are in Bin and:
687 Bin area = 1080
688 Real_area = 231.0
689 Proportion_of_area = 0.2138888888888888
690 BEST_CHROM =
691 berth: [ 9.5 9. 14.5 18.5 4.5 4. 13. 18. 24.5 23. 27. 2.5 9.5 25.5
692 18.5 18.5 2.5]
693 time: [7. 0. 0. 2. 1. 4. 4. 4. 6. 0. 0. 7. 4. 4. 6. 0. 0.]
694 num_QC: [3. 5. 2. 2. 2. 3. 4. 4. 2. 2. 1. 3. 2. 3. 5. 4. 5.]
695 Objective function values and some other indicators:
696 Obj0 = 9.00          Obj1 = 59.00        Obj0 + Obj1 = 68.00
697 Total movement of crane: 10.00
698 Total waiting time in berth position: 49.00
699 Total index of q during berthing: 1127.00
700 Specific arrangement for each vessel:
701 V_id: 0           li: 9.0           xi: 9.5           bow of i: 5.0           tail of i: 14.0           gama_i0: 7.0           gama_i1: 9.0
702 load_i: 140.0     gama_i1 + 1: 10.0   gama_i1 - gama_i0: 2.0   duration_time_i: 3.0   demand_i: 140.0   work
703 V_id: 1           li: 8.0           xi: 9.0           bow of i: 5.0           tail of i: 13.0           gama_i0: 0.0           gama_i1: 0.0
704 load_i: 100.0     gama_i1 + 1: 1.0    gama_i1 - gama_i0: 0.0   duration_time_i: 1.0   demand_i: 100.0   work load_i:
705 V_id: 2           li: 3.0           xi: 14.5           bow of i: 13.0           tail of i: 16.0           gama_i0: 0.0           gama_i1: 3
706 load_i: 160.0     gama_i1 + 1: 4.0    gama_i1 - gama_i0: 3.0   duration_time_i: 4.0   demand_i: 160.0   work
707 V_id: 3           li: 5.0           xi: 18.5           bow of i: 16.0           tail of i: 21.0           gama_i0: 2.0           gama_i1: 3
708 load_i: 60.0      gama_i1 + 1: 4.0    gama_i1 - gama_i0: 1.0   duration_time_i: 2.0   demand_i: 60.0   work
709 V_id: 4           li: 9.0           xi: 4.5            bow of i: 0.0           tail of i: 9.0           gama_i0: 1.0           gama_i1: 3
710 load_i: 120.0     gama_i1 + 1: 4.0    gama_i1 - gama_i0: 2.0   duration_time_i: 3.0   demand_i: 120.0   work load_i:
711 V_id: 5           li: 8.0           xi: 4.0            bow of i: 0.0           tail of i: 8.0           gama_i0: 4.0           gama_i1: 6.0
712 load_i: 140.0     gama_i1 + 1: 7.0    gama_i1 - gama_i0: 2.0   duration_time_i: 3.0   demand_i: 140.0   work load_i:
713 V_id: 6           li: 4.0           xi: 13.0           bow of i: 11.0           tail of i: 15.0           gama_i0: 4.0           gama_i1: 5
714 load_i: 80.0      gama_i1 + 1: 6.0    gama_i1 - gama_i0: 1.0   duration_time_i: 2.0   demand_i: 140.0   work
715 V_id: 7           li: 6.0           xi: 18.0           bow of i: 15.0           tail of i: 21.0           gama_i0: 4.0           gama_i1: 4
716 load_i: 80.0      gama_i1 + 1: 5.0    gama_i1 - gama_i0: 0.0   duration_time_i: 1.0   demand_i: 80.0   work
717 V_id: 8           li: 5.0           xi: 24.5           bow of i: 22.0           tail of i: 27.0           gama_i0: 6.0           gama_i1: 9
718 load_i: 160.0     gama_i1 + 1: 10.0   gama_i1 - gama_i0: 3.0   duration_time_i: 4.0   demand_i: 160.0   work
719 V_id: 9           li: 4.0           xi: 23.0           bow of i: 21.0           tail of i: 25.0           gama_i0: 0.0           gama_i1: 1
720 load_i: 80.0      gama_i1 + 1: 2.0    gama_i1 - gama_i0: 1.0   duration_time_i: 2.0   demand_i: 80.0   work
721 V_id: 10          li: 4.0           xi: 27.0           bow of i: 25.0           tail of i: 29.0           gama_i0: 0.0           gama_i1: 1
722 load_i: 80.0      gama_i1 + 1: 4.0    gama_i1 - gama_i0: 3.0   duration_time_i: 4.0   demand_i: 80.0   work
723 V_id: 11          li: 5.0           xi: 2.5            bow of i: 0.0           tail of i: 5.0           gama_i0: 7.0           gama_i1: 9.0
724 load_i: 160.0     gama_i1 + 1: 10.0   gama_i1 - gama_i0: 2.0   duration_time_i: 3.0   demand_i: 160.0   work
725 V_id: 12          li: 3.0           xi: 9.5            bow of i: 8.0           tail of i: 11.0           gama_i0: 4.0           gama_i1: 5
726 load_i: 80.0      gama_i1 + 1: 6.0    gama_i1 - gama_i0: 1.0   duration_time_i: 2.0   demand_i: 80.0   work
727 V_id: 13          li: 9.0           xi: 25.5           bow of i: 21.0           tail of i: 30.0           gama_i0: 4.0           gama_i1: 1
728 load_i: 80.0      gama_i1 + 1: 6.0    gama_i1 - gama_i0: 1.0   duration_time_i: 2.0   demand_i: 80.0   work
729 V_id: 14          li: 7.0           xi: 18.5           bow of i: 15.0           tail of i: 22.0           gama_i0: 6.0           gama_i1: 1
730 load_i: 140.0     gama_i1 + 1: 8.0    gama_i1 - gama_i0: 1.0   duration_time_i: 2.0   demand_i: 140.0   work
731 V_id: 15          li: 5.0           xi: 18.5           bow of i: 16.0           tail of i: 21.0           gama_i0: 0.0           gama_i1: 1
732 load_i: 160.0     gama_i1 + 1: 2.0    gama_i1 - gama_i0: 1.0   duration_time_i: 2.0   demand_i: 160.0   work
733 V_id: 16          li: 5.0           xi: 2.5            bow of i: 0.0           tail of i: 5.0           gama_i0: 0.0           gama_i1: 0.0
734 load_i: 100.0     gama_i1 + 1: 1.0    gama_i1 - gama_i0: 0.0   duration_time_i: 1.0   demand_i: 100.0   work load_i:

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unknown

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718  
719 Algorithm finished and the total CPU time: 434 s  
720 End  
721
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