

unknown

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80 cord_individual_obj[indivial_i,:] = [ 16. 12. 108. 120.]
81 cord_individual_obj[indivial_i,:] = [ 17. 10. 104. 114.]
82 cord_individual_obj[indivial_i,:] = [ 18. 10. 108. 118.]
83 cord_individual_obj[indivial_i,:] = [ 19. 8. 139. 147.]
84 cord_individual_obj[indivial_i,:] = [ 20. 10. 134. 144.]
85 cord_individual_obj[indivial_i,:] = [ 21. 11. 90. 101.]
86 cord_individual_obj[indivial_i,:] = [ 22. 9. 168. 177.]
87 cord_individual_obj[indivial_i,:] = [ 23. 10. 96. 106.]
88 cord_individual_obj[indivial_i,:] = [ 24. 9. 82. 91.]
89
90 min(cord_individual_obj[:,3]) = 83.0
91 historl_G_best_iter[iter, 3] = 83.0
92 Begin iteration:
93
94 iter = 2
95 cord_individual_obj[indivial_i,:] = [ 0. 8. 82. 90.]
96 cord_individual_obj[indivial_i,:] = [ 1. 10. 156. 166.]
97 cord_individual_obj[indivial_i,:] = [ 2. 9. 111. 120.]
98 cord_individual_obj[indivial_i,:] = [ 3. 11. 129. 140.]
99 cord_individual_obj[indivial_i,:] = [ 4. 12. 128. 140.]
100 cord_individual_obj[indivial_i,:] = [ 5. 11. 97. 108.]
101 cord_individual_obj[indivial_i,:] = [ 6. 10. 155. 165.]
102 cord_individual_obj[indivial_i,:] = [ 7. 9. 134. 143.]
103 cord_individual_obj[indivial_i,:] = [ 8. 8. 173. 181.]
104 cord_individual_obj[indivial_i,:] = [ 9. 9. 104. 113.]
105 cord_individual_obj[indivial_i,:] = [ 10. 7. 191. 198.]
106 cord_individual_obj[indivial_i,:] = [ 11. 9. 76. 85.]
107 cord_individual_obj[indivial_i,:] = [ 12. 11. 125. 136.]
108 cord_individual_obj[indivial_i,:] = [ 13. 11. 110. 121.]
109 cord_individual_obj[indivial_i,:] = [ 14. 9. 144. 153.]
110 cord_individual_obj[indivial_i,:] = [ 15. 7. 114. 121.]
111 cord_individual_obj[indivial_i,:] = [ 16. 14. 140. 154.]
112 cord_individual_obj[indivial_i,:] = [ 17. 10. 78. 88.]
113 cord_individual_obj[indivial_i,:] = [ 18. 11. 110. 121.]
114 cord_individual_obj[indivial_i,:] = [ 19. 12. 138. 150.]
115 cord_individual_obj[indivial_i,:] = [ 20. 11. 116. 127.]
116 cord_individual_obj[indivial_i,:] = [ 21. 8. 120. 128.]
117 cord_individual_obj[indivial_i,:] = [ 22. 8. 75. 83.]
118 cord_individual_obj[indivial_i,:] = [ 23. 11. 106. 117.]
119 cord_individual_obj[indivial_i,:] = [ 24. 10. 103. 113.]
120
121 min(cord_individual_obj[:,3]) = 83.0
122 historl_G_best_iter[iter, 3] = 83.0
123 Begin iteration:
124
125 iter = 3
126 cord_individual_obj[indivial_i,:] = [ 0. 7. 91. 98.]
127 cord_individual_obj[indivial_i,:] = [ 1. 9. 138. 147.]
128 cord_individual_obj[indivial_i,:] = [ 2. 9. 142. 151.]
129 cord_individual_obj[indivial_i,:] = [ 3. 8. 66. 74.]
130 cord_individual_obj[indivial_i,:] = [ 4. 8. 136. 144.]
131 cord_individual_obj[indivial_i,:] = [ 5. 9. 142. 151.]
132 cord_individual_obj[indivial_i,:] = [ 6. 7. 129. 136.]
133 cord_individual_obj[indivial_i,:] = [ 7. 10. 182. 192.]
134 cord_individual_obj[indivial_i,:] = [ 8. 8. 107. 115.]
135 cord_individual_obj[indivial_i,:] = [ 9. 8. 102. 110.]
136 cord_individual_obj[indivial_i,:] = [ 10. 8. 75. 83.]
137 cord_individual_obj[indivial_i,:] = [ 11. 10. 139. 149.]
138 cord_individual_obj[indivial_i,:] = [ 12. 7. 164. 171.]
139 cord_individual_obj[indivial_i,:] = [ 13. 10. 126. 136.]
140 cord_individual_obj[indivial_i,:] = [ 14. 9. 153. 162.]
141 cord_individual_obj[indivial_i,:] = [ 15. 11. 145. 156.]
142 cord_individual_obj[indivial_i,:] = [ 16. 9. 137. 146.]
143 cord_individual_obj[indivial_i,:] = [ 17. 8. 73. 81.]
144 cord_individual_obj[indivial_i,:] = [ 18. 8. 123. 131.]
145 cord_individual_obj[indivial_i,:] = [ 19. 9. 112. 121.]
146 cord_individual_obj[indivial_i,:] = [ 20. 9. 76. 85.]
147 cord_individual_obj[indivial_i,:] = [ 21. 10. 154. 164.]
148 cord_individual_obj[indivial_i,:] = [ 22. 9. 96. 105.]
149 cord_individual_obj[indivial_i,:] = [ 23. 8. 184. 192.]
150 cord_individual_obj[indivial_i,:] = [ 24. 8. 186. 194.]
151
152 min(cord_individual_obj[:,3]) = 74.0
153 historl_G_best_iter[iter, 3] = 74.0
154 Begin iteration:
155
156 iter = 4
157 cord_individual_obj[indivial_i,:] = [ 0. 7. 123. 130.]
158 cord_individual_obj[indivial_i,:] = [ 1. 11. 95. 106.]
159 cord_individual_obj[indivial_i,:] = [ 2. 10. 99. 109.]
160 cord_individual_obj[indivial_i,:] = [ 3. 12. 132. 144.]
161 cord_individual_obj[indivial_i,:] = [ 4. 10. 86. 96.]
162 cord_individual_obj[indivial_i,:] = [ 5. 10. 107. 117.]
163 cord_individual_obj[indivial_i,:] = [ 6. 8. 175. 183.]

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164 cord_individual_obj[indivial_i,:] = [ 7. 8. 107. 115.]
165 cord_individual_obj[indivial_i,:] = [ 8. 8. 112. 120.]
166 cord_individual_obj[indivial_i,:] = [ 9. 7. 136. 143.]
167 cord_individual_obj[indivial_i,:] = [ 10. 8. 98. 106.]
168 cord_individual_obj[indivial_i,:] = [ 11. 10. 90. 100.]
169 cord_individual_obj[indivial_i,:] = [ 12. 8. 213. 221.]
170 cord_individual_obj[indivial_i,:] = [ 13. 9. 138. 147.]
171 cord_individual_obj[indivial_i,:] = [ 14. 10. 158. 168.]
172 cord_individual_obj[indivial_i,:] = [ 15. 11. 157. 168.]
173 cord_individual_obj[indivial_i,:] = [ 16. 9. 114. 123.]
174 cord_individual_obj[indivial_i,:] = [ 17. 9. 155. 164.]
175 cord_individual_obj[indivial_i,:] = [ 18. 9. 149. 158.]
176 cord_individual_obj[indivial_i,:] = [ 19. 9. 116. 125.]
177 cord_individual_obj[indivial_i,:] = [ 20. 9. 87. 96.]
178 cord_individual_obj[indivial_i,:] = [ 21. 10. 105. 115.]
179 cord_individual_obj[indivial_i,:] = [ 22. 8. 122. 130.]
180 cord_individual_obj[indivial_i,:] = [ 23. 9. 144. 153.]
181 cord_individual_obj[indivial_i,:] = [ 24. 8. 66. 74.]
182
183 min(cord_individual_obj[:,3]) = 74.0
184 historl_G_best_iter[iter, 3] = 74.0
185 Begin iteration:
186
187 iter = 5
188 cord_individual_obj[indivial_i,:] = [ 0. 10. 160. 170.]
189 cord_individual_obj[indivial_i,:] = [ 1. 10. 169. 179.]
190 cord_individual_obj[indivial_i,:] = [ 2. 10. 114. 124.]
191 cord_individual_obj[indivial_i,:] = [ 3. 11. 133. 144.]
192 cord_individual_obj[indivial_i,:] = [ 4. 10. 105. 115.]
193 cord_individual_obj[indivial_i,:] = [ 5. 9. 138. 147.]
194 cord_individual_obj[indivial_i,:] = [ 6. 9. 161. 170.]
195 cord_individual_obj[indivial_i,:] = [ 7. 8. 137. 145.]
196 cord_individual_obj[indivial_i,:] = [ 8. 9. 82. 91.]
197 cord_individual_obj[indivial_i,:] = [ 9. 8. 101. 109.]
198 cord_individual_obj[indivial_i,:] = [ 10. 11. 96. 107.]
199 cord_individual_obj[indivial_i,:] = [ 11. 9. 135. 144.]
200 cord_individual_obj[indivial_i,:] = [ 12. 8. 66. 74.]
201 cord_individual_obj[indivial_i,:] = [ 13. 9. 75. 84.]
202 cord_individual_obj[indivial_i,:] = [ 14. 12. 90. 102.]
203 cord_individual_obj[indivial_i,:] = [ 15. 7. 126. 133.]
204 cord_individual_obj[indivial_i,:] = [ 16. 10. 138. 148.]
205 cord_individual_obj[indivial_i,:] = [ 17. 10. 185. 195.]
206 cord_individual_obj[indivial_i,:] = [ 18. 8. 154. 162.]
207 cord_individual_obj[indivial_i,:] = [ 19. 12. 158. 170.]
208 cord_individual_obj[indivial_i,:] = [ 20. 9. 104. 113.]
209 cord_individual_obj[indivial_i,:] = [ 21. 8. 104. 112.]
210 cord_individual_obj[indivial_i,:] = [ 22. 8. 169. 177.]
211 cord_individual_obj[indivial_i,:] = [ 23. 9. 104. 113.]
212 cord_individual_obj[indivial_i,:] = [ 24. 10. 117. 127.]
213
214 min(cord_individual_obj[:,3]) = 74.0
215 historl_G_best_iter[iter, 3] = 74.0
216 Begin iteration:
217
218 iter = 6
219 cord_individual_obj[indivial_i,:] = [ 0. 9. 104. 113.]
220 cord_individual_obj[indivial_i,:] = [ 1. 8. 97. 105.]
221 cord_individual_obj[indivial_i,:] = [ 2. 12. 158. 170.]
222 cord_individual_obj[indivial_i,:] = [ 3. 8. 110. 118.]
223 cord_individual_obj[indivial_i,:] = [ 4. 9. 111. 120.]
224 cord_individual_obj[indivial_i,:] = [ 5. 10. 122. 132.]
225 cord_individual_obj[indivial_i,:] = [ 6. 10. 126. 136.]
226 cord_individual_obj[indivial_i,:] = [ 7. 9. 136. 145.]
227 cord_individual_obj[indivial_i,:] = [ 8. 8. 113. 121.]
228 cord_individual_obj[indivial_i,:] = [ 9. 9. 120. 129.]
229 cord_individual_obj[indivial_i,:] = [ 10. 8. 99. 107.]
230 cord_individual_obj[indivial_i,:] = [ 11. 12. 130. 142.]
231 cord_individual_obj[indivial_i,:] = [ 12. 10. 140. 150.]
232 cord_individual_obj[indivial_i,:] = [ 13. 9. 150. 159.]
233 cord_individual_obj[indivial_i,:] = [ 14. 8. 107. 115.]
234 cord_individual_obj[indivial_i,:] = [ 15. 9. 118. 127.]
235 cord_individual_obj[indivial_i,:] = [ 16. 10. 131. 141.]
236 cord_individual_obj[indivial_i,:] = [ 17. 8. 66. 74.]
237 cord_individual_obj[indivial_i,:] = [ 18. 8. 131. 139.]
238 cord_individual_obj[indivial_i,:] = [ 19. 9. 100. 109.]
239 cord_individual_obj[indivial_i,:] = [ 20. 10. 99. 109.]
240 cord_individual_obj[indivial_i,:] = [ 21. 9. 142. 151.]
241 cord_individual_obj[indivial_i,:] = [ 22. 9. 146. 155.]
242 cord_individual_obj[indivial_i,:] = [ 23. 10. 105. 115.]
243 cord_individual_obj[indivial_i,:] = [ 24. 9. 137. 146.]
244
245 min(cord_individual_obj[:,3]) = 74.0
246 historl_G_best_iter[iter, 3] = 74.0
247 Begin iteration:

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248
249 iter = 7
250 cord_individual_obj[indivial_i, :] = [ 0. 8. 130. 138.]
251 cord_individual_obj[indivial_i, :] = [ 1. 9. 100. 109.]
252 cord_individual_obj[indivial_i, :] = [ 2. 8. 66. 74.]
253 cord_individual_obj[indivial_i, :] = [ 3. 11. 108. 119.]
254 cord_individual_obj[indivial_i, :] = [ 4. 9. 64. 73.]
255 cord_individual_obj[indivial_i, :] = [ 5. 9. 147. 156.]
256 cord_individual_obj[indivial_i, :] = [ 6. 11. 97. 108.]
257 cord_individual_obj[indivial_i, :] = [ 7. 10. 157. 167.]
258 cord_individual_obj[indivial_i, :] = [ 8. 10. 110. 120.]
259 cord_individual_obj[indivial_i, :] = [ 9. 11. 120. 131.]
260 cord_individual_obj[indivial_i, :] = [ 10. 9. 109. 118.]
261 cord_individual_obj[indivial_i, :] = [ 11. 10. 135. 145.]
262 cord_individual_obj[indivial_i, :] = [ 12. 11. 145. 156.]
263 cord_individual_obj[indivial_i, :] = [ 13. 9. 119. 128.]
264 cord_individual_obj[indivial_i, :] = [ 14. 9. 116. 125.]
265 cord_individual_obj[indivial_i, :] = [ 15. 9. 150. 159.]
266 cord_individual_obj[indivial_i, :] = [ 16. 14. 202. 216.]
267 cord_individual_obj[indivial_i, :] = [ 17. 10. 135. 145.]
268 cord_individual_obj[indivial_i, :] = [ 18. 11. 109. 120.]
269 cord_individual_obj[indivial_i, :] = [ 19. 8. 151. 159.]
270 cord_individual_obj[indivial_i, :] = [ 20. 11. 120. 131.]
271 cord_individual_obj[indivial_i, :] = [ 21. 12. 163. 175.]
272 cord_individual_obj[indivial_i, :] = [ 22. 8. 135. 143.]
273 cord_individual_obj[indivial_i, :] = [ 23. 8. 130. 138.]
274 cord_individual_obj[indivial_i, :] = [ 24. 11. 132. 143.]
275

276 min(cord_individual_obj[:, 3]) = 73.0
277 historl_G_best_iter[iter, 3] = 73.0
278 Begin iteration:
279
280 iter = 8
281 cord_individual_obj[indivial_i, :] = [ 0. 7. 80. 87.]
282 cord_individual_obj[indivial_i, :] = [ 1. 8. 128. 136.]
283 cord_individual_obj[indivial_i, :] = [ 2. 10. 93. 103.]
284 cord_individual_obj[indivial_i, :] = [ 3. 10. 132. 142.]
285 cord_individual_obj[indivial_i, :] = [ 4. 9. 194. 203.]
286 cord_individual_obj[indivial_i, :] = [ 5. 9. 110. 119.]
287 cord_individual_obj[indivial_i, :] = [ 6. 9. 142. 151.]
288 cord_individual_obj[indivial_i, :] = [ 7. 9. 139. 148.]
289 cord_individual_obj[indivial_i, :] = [ 8. 11. 85. 96.]
290 cord_individual_obj[indivial_i, :] = [ 9. 10. 168. 178.]
291 cord_individual_obj[indivial_i, :] = [ 10. 9. 108. 117.]
292 cord_individual_obj[indivial_i, :] = [ 11. 11. 88. 99.]
293 cord_individual_obj[indivial_i, :] = [ 12. 9. 134. 143.]
294 cord_individual_obj[indivial_i, :] = [ 13. 9. 141. 150.]
295 cord_individual_obj[indivial_i, :] = [ 14. 7. 117. 124.]
296 cord_individual_obj[indivial_i, :] = [ 15. 9. 118. 127.]
297 cord_individual_obj[indivial_i, :] = [ 16. 9. 64. 73.]
298 cord_individual_obj[indivial_i, :] = [ 17. 9. 103. 112.]
299 cord_individual_obj[indivial_i, :] = [ 18. 10. 114. 124.]
300 cord_individual_obj[indivial_i, :] = [ 19. 8. 97. 105.]
301 cord_individual_obj[indivial_i, :] = [ 20. 10. 90. 100.]
302 cord_individual_obj[indivial_i, :] = [ 21. 9. 83. 92.]
303 cord_individual_obj[indivial_i, :] = [ 22. 11. 125. 136.]
304 cord_individual_obj[indivial_i, :] = [ 23. 8. 183. 191.]
305 cord_individual_obj[indivial_i, :] = [ 24. 10. 153. 163.]
306

307 min(cord_individual_obj[:, 3]) = 73.0
308 historl_G_best_iter[iter, 3] = 73.0
309 Begin iteration:
310
311 iter = 9
312 cord_individual_obj[indivial_i, :] = [ 0. 9. 140. 149.]
313 cord_individual_obj[indivial_i, :] = [ 1. 11. 117. 128.]
314 cord_individual_obj[indivial_i, :] = [ 2. 10. 138. 148.]
315 cord_individual_obj[indivial_i, :] = [ 3. 9. 96. 105.]
316 cord_individual_obj[indivial_i, :] = [ 4. 9. 64. 73.]
317 cord_individual_obj[indivial_i, :] = [ 5. 9. 179. 188.]
318 cord_individual_obj[indivial_i, :] = [ 6. 10. 65. 75.]
319 cord_individual_obj[indivial_i, :] = [ 7. 9. 87. 96.]
320 cord_individual_obj[indivial_i, :] = [ 8. 9. 159. 168.]
321 cord_individual_obj[indivial_i, :] = [ 9. 11. 95. 106.]
322 cord_individual_obj[indivial_i, :] = [ 10. 8. 101. 109.]
323 cord_individual_obj[indivial_i, :] = [ 11. 11. 103. 114.]
324 cord_individual_obj[indivial_i, :] = [ 12. 10. 100. 110.]
325 cord_individual_obj[indivial_i, :] = [ 13. 9. 106. 115.]
326 cord_individual_obj[indivial_i, :] = [ 14. 11. 146. 157.]
327 cord_individual_obj[indivial_i, :] = [ 15. 10. 125. 135.]
328 cord_individual_obj[indivial_i, :] = [ 16. 11. 82. 93.]
329 cord_individual_obj[indivial_i, :] = [ 17. 8. 117. 125.]
330 cord_individual_obj[indivial_i, :] = [ 18. 8. 138. 146.]
331 cord_individual_obj[indivial_i, :] = [ 19. 9. 132. 141.]

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332 cord_individual_obj[indivial_i,:] = [ 20.  8. 111. 119.]
333 cord_individual_obj[indivial_i,:] = [21. 11. 87. 98.]
334 cord_individual_obj[indivial_i,:] = [ 22.  9. 128. 137.]
335 cord_individual_obj[indivial_i,:] = [ 23. 14. 139. 153.]
336 cord_individual_obj[indivial_i,:] = [ 24.  9. 110. 119.]
337
338 min(cord_individual_obj[:,3]) = 73.0
339 histol_G_best_iter[iter,3] = 73.0
340 Begin iteration:
341
342 iter = 10
343 cord_individual_obj[indivial_i,:] = [ 0.  9. 266. 275.]
344 cord_individual_obj[indivial_i,:] = [ 1.  8. 100. 108.]
345 cord_individual_obj[indivial_i,:] = [ 2. 12. 136. 148.]
346 cord_individual_obj[indivial_i,:] = [ 3. 10. 93. 103.]
347 cord_individual_obj[indivial_i,:] = [ 4. 10. 157. 167.]
348 cord_individual_obj[indivial_i,:] = [ 5.  9. 64. 73.]
349 cord_individual_obj[indivial_i,:] = [ 6.  9. 128. 137.]
350 cord_individual_obj[indivial_i,:] = [ 7.  9. 143. 152.]
351 cord_individual_obj[indivial_i,:] = [ 8.  9. 121. 130.]
352 cord_individual_obj[indivial_i,:] = [ 9.  8. 115. 123.]
353 cord_individual_obj[indivial_i,:] = [10.  9. 132. 141.]
354 cord_individual_obj[indivial_i,:] = [11. 11. 158. 169.]
355 cord_individual_obj[indivial_i,:] = [12.  9. 74. 83.]
356 cord_individual_obj[indivial_i,:] = [13. 10. 164. 174.]
357 cord_individual_obj[indivial_i,:] = [14. 11. 183. 194.]
358 cord_individual_obj[indivial_i,:] = [15.  8. 151. 159.]
359 cord_individual_obj[indivial_i,:] = [16. 11. 119. 130.]
360 cord_individual_obj[indivial_i,:] = [17.  9. 82. 91.]
361 cord_individual_obj[indivial_i,:] = [18.  8. 106. 114.]
362 cord_individual_obj[indivial_i,:] = [19.  9. 102. 111.]
363 cord_individual_obj[indivial_i,:] = [20. 11. 158. 169.]
364 cord_individual_obj[indivial_i,:] = [21.  9. 111. 120.]
365 cord_individual_obj[indivial_i,:] = [22.  8. 84. 92.]
366 cord_individual_obj[indivial_i,:] = [23.  9. 110. 119.]
367 cord_individual_obj[indivial_i,:] = [24.  9. 141. 150.]
368
369 min(cord_individual_obj[:,3]) = 73.0
370 histol_G_best_iter[iter,3] = 73.0
371 Begin iteration:
372
373 iter = 11
374 cord_individual_obj[indivial_i,:] = [ 0.  9. 64. 73.]
375 cord_individual_obj[indivial_i,:] = [ 1.  9. 189. 198.]
376 cord_individual_obj[indivial_i,:] = [ 2. 10. 98. 108.]
377 cord_individual_obj[indivial_i,:] = [ 3. 11. 85. 96.]
378 cord_individual_obj[indivial_i,:] = [ 4.  8. 124. 132.]
379 cord_individual_obj[indivial_i,:] = [ 5.  9. 87. 96.]
380 cord_individual_obj[indivial_i,:] = [ 6. 10. 151. 161.]
381 cord_individual_obj[indivial_i,:] = [ 7. 11. 118. 129.]
382 cord_individual_obj[indivial_i,:] = [ 8.  8. 63. 71.]
383 cord_individual_obj[indivial_i,:] = [ 9.  9. 59. 68.]
384 cord_individual_obj[indivial_i,:] = [10.  9. 97. 106.]
385 cord_individual_obj[indivial_i,:] = [11.  9. 148. 157.]
386 cord_individual_obj[indivial_i,:] = [12.  9. 98. 107.]
387 cord_individual_obj[indivial_i,:] = [13.  9. 108. 117.]
388 cord_individual_obj[indivial_i,:] = [14.  7. 167. 174.]
389 cord_individual_obj[indivial_i,:] = [15.  9. 126. 135.]
390 cord_individual_obj[indivial_i,:] = [16.  9. 95. 104.]
391 cord_individual_obj[indivial_i,:] = [17. 11. 101. 112.]
392 cord_individual_obj[indivial_i,:] = [18. 10. 110. 120.]
393 cord_individual_obj[indivial_i,:] = [19.  9. 135. 144.]
394 cord_individual_obj[indivial_i,:] = [20. 10. 156. 166.]
395 cord_individual_obj[indivial_i,:] = [21. 10. 69. 79.]
396 cord_individual_obj[indivial_i,:] = [22.  9. 138. 147.]
397 cord_individual_obj[indivial_i,:] = [23. 10. 155. 165.]
398 cord_individual_obj[indivial_i,:] = [24.  9. 102. 111.]
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. 11. 92. 103.]
406 cord_individual_obj[indivial_i,:] = [ 1.  9. 59. 68.]
407 cord_individual_obj[indivial_i,:] = [ 2. 10. 203. 213.]
408 cord_individual_obj[indivial_i,:] = [ 3. 11. 112. 123.]
409 cord_individual_obj[indivial_i,:] = [ 4. 10. 124. 134.]
410 cord_individual_obj[indivial_i,:] = [ 5.  8. 130. 138.]
411 cord_individual_obj[indivial_i,:] = [ 6. 10. 164. 174.]
412 cord_individual_obj[indivial_i,:] = [ 7.  8. 88. 96.]
413 cord_individual_obj[indivial_i,:] = [ 8.  9. 111. 120.]
414 cord_individual_obj[indivial_i,:] = [ 9.  8. 102. 110.]
415 cord_individual_obj[indivial_i,:] = [10.  9. 96. 105.]

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416 cord_individual_obj[indivial_i,:] = [11. 10. 85. 95.]
417 cord_individual_obj[indivial_i,:] = [12. 9. 66. 75.]
418 cord_individual_obj[indivial_i,:] = [13. 7. 58. 65.]
419 cord_individual_obj[indivial_i,:] = [14. 9. 112. 121.]
420 cord_individual_obj[indivial_i,:] = [15. 11. 145. 156.]
421 cord_individual_obj[indivial_i,:] = [16. 10. 120. 130.]
422 cord_individual_obj[indivial_i,:] = [17. 10. 151. 161.]
423 cord_individual_obj[indivial_i,:] = [18. 10. 133. 143.]
424 cord_individual_obj[indivial_i,:] = [19. 9. 80. 89.]
425 cord_individual_obj[indivial_i,:] = [20. 12. 198. 210.]
426 cord_individual_obj[indivial_i,:] = [21. 9. 136. 145.]
427 cord_individual_obj[indivial_i,:] = [22. 9. 148. 157.]
428 cord_individual_obj[indivial_i,:] = [23. 10. 114. 124.]
429 cord_individual_obj[indivial_i,:] = [24. 8. 76. 84.]
430
431 min(cord_individual_obj[:,3]) = 65.0
432 histol_G_best_iter[iter,3] = 65.0
433 Begin iteration:
434
435 iter = 13
436 cord_individual_obj[indivial_i,:] = [0. 8. 84. 92.]
437 cord_individual_obj[indivial_i,:] = [1. 9. 155. 164.]
438 cord_individual_obj[indivial_i,:] = [2. 7. 58. 65.]
439 cord_individual_obj[indivial_i,:] = [3. 12. 118. 130.]
440 cord_individual_obj[indivial_i,:] = [4. 11. 119. 130.]
441 cord_individual_obj[indivial_i,:] = [5. 9. 87. 96.]
442 cord_individual_obj[indivial_i,:] = [6. 10. 157. 167.]
443 cord_individual_obj[indivial_i,:] = [7. 10. 120. 130.]
444 cord_individual_obj[indivial_i,:] = [8. 9. 117. 126.]
445 cord_individual_obj[indivial_i,:] = [9. 8. 138. 146.]
446 cord_individual_obj[indivial_i,:] = [10. 7. 105. 112.]
447 cord_individual_obj[indivial_i,:] = [11. 11. 133. 144.]
448 cord_individual_obj[indivial_i,:] = [12. 10. 120. 130.]
449 cord_individual_obj[indivial_i,:] = [13. 10. 109. 119.]
450 cord_individual_obj[indivial_i,:] = [14. 9. 175. 184.]
451 cord_individual_obj[indivial_i,:] = [15. 10. 110. 120.]
452 cord_individual_obj[indivial_i,:] = [16. 10. 80. 90.]
453 cord_individual_obj[indivial_i,:] = [17. 13. 132. 145.]
454 cord_individual_obj[indivial_i,:] = [18. 9. 87. 96.]
455 cord_individual_obj[indivial_i,:] = [19. 9. 126. 135.]
456 cord_individual_obj[indivial_i,:] = [20. 9. 164. 173.]
457 cord_individual_obj[indivial_i,:] = [21. 11. 91. 102.]
458 cord_individual_obj[indivial_i,:] = [22. 9. 113. 122.]
459 cord_individual_obj[indivial_i,:] = [23. 11. 139. 150.]
460 cord_individual_obj[indivial_i,:] = [24. 12. 115. 127.]
461
462 min(cord_individual_obj[:,3]) = 65.0
463 histol_G_best_iter[iter,3] = 65.0
464 Begin iteration:
465
466 iter = 14
467 cord_individual_obj[indivial_i,:] = [0. 8. 92. 100.]
468 cord_individual_obj[indivial_i,:] = [1. 9. 106. 115.]
469 cord_individual_obj[indivial_i,:] = [2. 11. 118. 129.]
470 cord_individual_obj[indivial_i,:] = [3. 8. 151. 159.]
471 cord_individual_obj[indivial_i,:] = [4. 9. 104. 113.]
472 cord_individual_obj[indivial_i,:] = [5. 10. 127. 137.]
473 cord_individual_obj[indivial_i,:] = [6. 10. 131. 141.]
474 cord_individual_obj[indivial_i,:] = [7. 11. 112. 123.]
475 cord_individual_obj[indivial_i,:] = [8. 10. 146. 156.]
476 cord_individual_obj[indivial_i,:] = [9. 8. 166. 174.]
477 cord_individual_obj[indivial_i,:] = [10. 11. 95. 106.]
478 cord_individual_obj[indivial_i,:] = [11. 14. 91. 105.]
479 cord_individual_obj[indivial_i,:] = [12. 9. 161. 170.]
480 cord_individual_obj[indivial_i,:] = [13. 10. 120. 130.]
481 cord_individual_obj[indivial_i,:] = [14. 7. 58. 65.]
482 cord_individual_obj[indivial_i,:] = [15. 10. 126. 136.]
483 cord_individual_obj[indivial_i,:] = [16. 10. 95. 105.]
484 cord_individual_obj[indivial_i,:] = [17. 9. 88. 97.]
485 cord_individual_obj[indivial_i,:] = [18. 8. 65. 73.]
486 cord_individual_obj[indivial_i,:] = [19. 10. 140. 150.]
487 cord_individual_obj[indivial_i,:] = [20. 12. 128. 140.]
488 cord_individual_obj[indivial_i,:] = [21. 11. 123. 134.]
489 cord_individual_obj[indivial_i,:] = [22. 11. 118. 129.]
490 cord_individual_obj[indivial_i,:] = [23. 10. 121. 131.]
491 cord_individual_obj[indivial_i,:] = [24. 9. 129. 138.]
492
493 min(cord_individual_obj[:,3]) = 65.0
494 histol_G_best_iter[iter,3] = 65.0
495 Begin iteration:
496
497 iter = 15
498 cord_individual_obj[indivial_i,:] = [0. 9. 80. 89.]
499 cord_individual_obj[indivial_i,:] = [1. 9. 126. 135.]

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500 cord_individual_obj[indivial_i, :] = [ 2. 9. 135. 144.]
501 cord_individual_obj[indivial_i, :] = [ 3. 11. 160. 171.]
502 cord_individual_obj[indivial_i, :] = [ 4. 10. 75. 85.]
503 cord_individual_obj[indivial_i, :] = [ 5. 9. 110. 119.]
504 cord_individual_obj[indivial_i, :] = [ 6. 11. 98. 109.]
505 cord_individual_obj[indivial_i, :] = [ 7. 9. 111. 120.]
506 cord_individual_obj[indivial_i, :] = [ 8. 10. 179. 189.]
507 cord_individual_obj[indivial_i, :] = [ 9. 7. 58. 65.]
508 cord_individual_obj[indivial_i, :] = [ 10. 8. 108. 116.]
509 cord_individual_obj[indivial_i, :] = [ 11. 10. 101. 111.]
510 cord_individual_obj[indivial_i, :] = [ 12. 10. 93. 103.]
511 cord_individual_obj[indivial_i, :] = [ 13. 8. 102. 110.]
512 cord_individual_obj[indivial_i, :] = [ 14. 12. 129. 141.]
513 cord_individual_obj[indivial_i, :] = [ 15. 8. 131. 139.]
514 cord_individual_obj[indivial_i, :] = [ 16. 9. 113. 122.]
515 cord_individual_obj[indivial_i, :] = [ 17. 11. 92. 103.]
516 cord_individual_obj[indivial_i, :] = [ 18. 10. 139. 149.]
517 cord_individual_obj[indivial_i, :] = [ 19. 10. 172. 182.]
518 cord_individual_obj[indivial_i, :] = [ 20. 10. 82. 92.]
519 cord_individual_obj[indivial_i, :] = [ 21. 9. 105. 114.]
520 cord_individual_obj[indivial_i, :] = [ 22. 9. 136. 145.]
521 cord_individual_obj[indivial_i, :] = [ 23. 10. 96. 106.]
522 cord_individual_obj[indivial_i, :] = [ 24. 11. 131. 142.]
523
524 min(cord_individual_obj[:, 3]) = 65.0
525 histol_G_best_iter[iter, 3] = 65.0
526 Begin iteration:
527
528 iter = 16
529 cord_individual_obj[indivial_i, :] = [ 0. 9. 151. 160.]
530 cord_individual_obj[indivial_i, :] = [ 1. 10. 150. 160.]
531 cord_individual_obj[indivial_i, :] = [ 2. 9. 110. 119.]
532 cord_individual_obj[indivial_i, :] = [ 3. 9. 73. 82.]
533 cord_individual_obj[indivial_i, :] = [ 4. 11. 74. 85.]
534 cord_individual_obj[indivial_i, :] = [ 5. 9. 112. 121.]
535 cord_individual_obj[indivial_i, :] = [ 6. 8. 117. 125.]
536 cord_individual_obj[indivial_i, :] = [ 7. 11. 138. 149.]
537 cord_individual_obj[indivial_i, :] = [ 8. 7. 58. 65.]
538 cord_individual_obj[indivial_i, :] = [ 9. 12. 146. 158.]
539 cord_individual_obj[indivial_i, :] = [ 10. 9. 92. 101.]
540 cord_individual_obj[indivial_i, :] = [ 11. 10. 73. 83.]
541 cord_individual_obj[indivial_i, :] = [ 12. 9. 131. 140.]
542 cord_individual_obj[indivial_i, :] = [ 13. 11. 109. 120.]
543 cord_individual_obj[indivial_i, :] = [ 14. 11. 159. 170.]
544 cord_individual_obj[indivial_i, :] = [ 15. 8. 96. 104.]
545 cord_individual_obj[indivial_i, :] = [ 16. 11. 104. 115.]
546 cord_individual_obj[indivial_i, :] = [ 17. 11. 110. 121.]
547 cord_individual_obj[indivial_i, :] = [ 18. 10. 94. 104.]
548 cord_individual_obj[indivial_i, :] = [ 19. 10. 152. 162.]
549 cord_individual_obj[indivial_i, :] = [ 20. 7. 215. 222.]
550 cord_individual_obj[indivial_i, :] = [ 21. 9. 111. 120.]
551 cord_individual_obj[indivial_i, :] = [ 22. 8. 95. 103.]
552 cord_individual_obj[indivial_i, :] = [ 23. 10. 125. 135.]
553 cord_individual_obj[indivial_i, :] = [ 24. 9. 144. 153.]
554
555 min(cord_individual_obj[:, 3]) = 65.0
556 histol_G_best_iter[iter, 3] = 65.0
557 Begin iteration:
558
559 iter = 17
560 cord_individual_obj[indivial_i, :] = [ 0. 9. 149. 158.]
561 cord_individual_obj[indivial_i, :] = [ 1. 7. 133. 140.]
562 cord_individual_obj[indivial_i, :] = [ 2. 11. 149. 160.]
563 cord_individual_obj[indivial_i, :] = [ 3. 11. 130. 141.]
564 cord_individual_obj[indivial_i, :] = [ 4. 11. 78. 89.]
565 cord_individual_obj[indivial_i, :] = [ 5. 13. 131. 144.]
566 cord_individual_obj[indivial_i, :] = [ 6. 9. 153. 162.]
567 cord_individual_obj[indivial_i, :] = [ 7. 10. 84. 94.]
568 cord_individual_obj[indivial_i, :] = [ 8. 9. 110. 119.]
569 cord_individual_obj[indivial_i, :] = [ 9. 8. 156. 164.]
570 cord_individual_obj[indivial_i, :] = [ 10. 10. 99. 109.]
571 cord_individual_obj[indivial_i, :] = [ 11. 10. 148. 158.]
572 cord_individual_obj[indivial_i, :] = [ 12. 9. 87. 96.]
573 cord_individual_obj[indivial_i, :] = [ 13. 7. 144. 151.]
574 cord_individual_obj[indivial_i, :] = [ 14. 10. 131. 141.]
575 cord_individual_obj[indivial_i, :] = [ 15. 10. 104. 114.]
576 cord_individual_obj[indivial_i, :] = [ 16. 10. 118. 128.]
577 cord_individual_obj[indivial_i, :] = [ 17. 12. 89. 101.]
578 cord_individual_obj[indivial_i, :] = [ 18. 9. 115. 124.]
579 cord_individual_obj[indivial_i, :] = [ 19. 12. 116. 128.]
580 cord_individual_obj[indivial_i, :] = [ 20. 7. 58. 65.]
581 cord_individual_obj[indivial_i, :] = [ 21. 9. 87. 96.]
582 cord_individual_obj[indivial_i, :] = [ 22. 9. 104. 113.]
583 cord_individual_obj[indivial_i, :] = [ 23. 9. 179. 188.]

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584     cord_individual_obj[indivial_i, :] = [ 24. 12. 157. 169.]
585
586     min(cord_individual_obj[:, 3]) = 65.0
587     historl_G_best_iter[iter, 3] = 65.0
588 Begin iteration:
589
590 iter = 18
591     cord_individual_obj[indivial_i, :] = [ 0. 9. 78. 87.]
592     cord_individual_obj[indivial_i, :] = [ 1. 10. 111. 121.]
593     cord_individual_obj[indivial_i, :] = [ 2. 10. 151. 161.]
594     cord_individual_obj[indivial_i, :] = [ 3. 8. 101. 109.]
595     cord_individual_obj[indivial_i, :] = [ 4. 8. 114. 122.]
596     cord_individual_obj[indivial_i, :] = [ 5. 10. 139. 149.]
597     cord_individual_obj[indivial_i, :] = [ 6. 7. 127. 134.]
598     cord_individual_obj[indivial_i, :] = [ 7. 9. 129. 138.]
599     cord_individual_obj[indivial_i, :] = [ 8. 9. 126. 135.]
600     cord_individual_obj[indivial_i, :] = [ 9. 8. 121. 129.]
601     cord_individual_obj[indivial_i, :] = [ 10. 9. 140. 149.]
602     cord_individual_obj[indivial_i, :] = [ 11. 8. 97. 105.]
603     cord_individual_obj[indivial_i, :] = [ 12. 11. 110. 121.]
604     cord_individual_obj[indivial_i, :] = [ 13. 10. 119. 129.]
605     cord_individual_obj[indivial_i, :] = [ 14. 10. 84. 94.]
606     cord_individual_obj[indivial_i, :] = [ 15. 12. 146. 158.]
607     cord_individual_obj[indivial_i, :] = [ 16. 10. 80. 90.]
608     cord_individual_obj[indivial_i, :] = [ 17. 10. 92. 102.]
609     cord_individual_obj[indivial_i, :] = [ 18. 8. 130. 138.]
610     cord_individual_obj[indivial_i, :] = [ 19. 11. 171. 182.]
611     cord_individual_obj[indivial_i, :] = [ 20. 9. 110. 119.]
612     cord_individual_obj[indivial_i, :] = [ 21. 10. 102. 112.]
613     cord_individual_obj[indivial_i, :] = [ 22. 10. 99. 109.]
614     cord_individual_obj[indivial_i, :] = [ 23. 7. 58. 65.]
615     cord_individual_obj[indivial_i, :] = [ 24. 11. 172. 183.]
616
617     min(cord_individual_obj[:, 3]) = 65.0
618     historl_G_best_iter[iter, 3] = 65.0
619 Begin iteration:
620
621 iter = 19
622     cord_individual_obj[indivial_i, :] = [ 0. 9. 165. 174.]
623     cord_individual_obj[indivial_i, :] = [ 1. 10. 118. 128.]
624     cord_individual_obj[indivial_i, :] = [ 2. 9. 109. 118.]
625     cord_individual_obj[indivial_i, :] = [ 3. 9. 113. 122.]
626     cord_individual_obj[indivial_i, :] = [ 4. 9. 120. 129.]
627     cord_individual_obj[indivial_i, :] = [ 5. 9. 104. 113.]
628     cord_individual_obj[indivial_i, :] = [ 6. 9. 115. 124.]
629     cord_individual_obj[indivial_i, :] = [ 7. 11. 181. 192.]
630     cord_individual_obj[indivial_i, :] = [ 8. 9. 147. 156.]
631     cord_individual_obj[indivial_i, :] = [ 9. 11. 157. 168.]
632     cord_individual_obj[indivial_i, :] = [ 10. 10. 120. 130.]
633     cord_individual_obj[indivial_i, :] = [ 11. 10. 76. 86.]
634     cord_individual_obj[indivial_i, :] = [ 12. 9. 95. 104.]
635     cord_individual_obj[indivial_i, :] = [ 13. 10. 162. 172.]
636     cord_individual_obj[indivial_i, :] = [ 14. 8. 92. 100.]
637     cord_individual_obj[indivial_i, :] = [ 15. 10. 110. 120.]
638     cord_individual_obj[indivial_i, :] = [ 16. 10. 102. 112.]
639     cord_individual_obj[indivial_i, :] = [ 17. 12. 114. 126.]
640     cord_individual_obj[indivial_i, :] = [ 18. 9. 126. 135.]
641     cord_individual_obj[indivial_i, :] = [ 19. 9. 89. 98.]
642     cord_individual_obj[indivial_i, :] = [ 20. 8. 83. 91.]
643     cord_individual_obj[indivial_i, :] = [ 21. 10. 177. 187.]
644     cord_individual_obj[indivial_i, :] = [ 22. 10. 136. 146.]
645     cord_individual_obj[indivial_i, :] = [ 23. 11. 100. 111.]
646     cord_individual_obj[indivial_i, :] = [ 24. 7. 58. 65.]
647
648     min(cord_individual_obj[:, 3]) = 65.0
649     historl_G_best_iter[iter, 3] = 65.0
650 Begin iteration:
651
652 iter = 20
653     cord_individual_obj[indivial_i, :] = [ 0. 9. 82. 91.]
654     cord_individual_obj[indivial_i, :] = [ 1. 10. 129. 139.]
655     cord_individual_obj[indivial_i, :] = [ 2. 10. 174. 184.]
656     cord_individual_obj[indivial_i, :] = [ 3. 10. 116. 126.]
657     cord_individual_obj[indivial_i, :] = [ 4. 11. 80. 91.]
658     cord_individual_obj[indivial_i, :] = [ 5. 9. 52. 61.]
659     cord_individual_obj[indivial_i, :] = [ 6. 9. 112. 121.]
660     cord_individual_obj[indivial_i, :] = [ 7. 7. 58. 65.]
661     cord_individual_obj[indivial_i, :] = [ 8. 9. 125. 134.]
662     cord_individual_obj[indivial_i, :] = [ 9. 10. 109. 119.]
663     cord_individual_obj[indivial_i, :] = [ 10. 10. 128. 138.]
664     cord_individual_obj[indivial_i, :] = [ 11. 13. 77. 90.]
665     cord_individual_obj[indivial_i, :] = [ 12. 13. 107. 120.]
666     cord_individual_obj[indivial_i, :] = [ 13. 9. 84. 93.]
667     cord_individual_obj[indivial_i, :] = [ 14. 9. 80. 89.]

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668 cord_individual_obj[indivial_i,:] = [ 15. 10. 106. 116.]
669 cord_individual_obj[indivial_i,:] = [ 16. 11. 112. 123.]
670 cord_individual_obj[indivial_i,:] = [ 17. 11. 126. 137.]
671 cord_individual_obj[indivial_i,:] = [ 18. 9. 121. 130.]
672 cord_individual_obj[indivial_i,:] = [ 19. 11. 77. 88.]
673 cord_individual_obj[indivial_i,:] = [ 20. 9. 109. 118.]
674 cord_individual_obj[indivial_i,:] = [ 21. 9. 93. 102.]
675 cord_individual_obj[indivial_i,:] = [ 22. 13. 133. 146.]
676 cord_individual_obj[indivial_i,:] = [ 23. 9. 147. 156.]
677 cord_individual_obj[indivial_i,:] = [ 24. 10. 125. 135.]
678
679 min(cord_individual_obj[:,3]) = 61.0
680 historl_G_best_iter[iter,3] = 61.0
681 Iteration calculate over
682
683
684
685
686 All item are in Bin and:
687 Bin area = 1080
688 Real_area = 241.0
689 Proportion_of_area = 0.22314814814814815
690 BEST_CHROM =
691 berth: [ 2. 4. 14.5 20.5 4.5 25. 8.5 12. 22.5 12.5 7.5 3. 2.5 13.5
692 3.5 18.5 17. ]
693 time: [ 1. 9. 2. 2. 5. 0. 2. 0. 6. 3. 0. 0. 7. 5. 3. 0. 3. ]
694 num_QC: [ 3. 4. 6. 1. 2. 2. 3. 5. 2. 3. 2. 3. 5. 5. 2. 3. 3. ]
695 Objective function values and some other indicators:
696 Obj0 = 9.00 Obj1 = 52.00 Obj0 + Obj1 = 61.00
697 Total movement of crane: 4.00
698 Total waiting time in berth position: 48.00
699 Total index of q during berthing: 916.00
700 Specific arrangement for each vessel:
701 V_id: 0 li: 4.0 xi: 2.0 bow of i: 0.0 tail of i: 4.0 gama_i0: 1.0 gama_i1: 2.0
702 100.0 work load gap_i: 0 gama_i1 + 1: 3.0 gama_i1 - gama_i0: 1.0 duration_time_i: 2.0 demand_i: 100.0 work load_i:
703 V_id: 1 li: 8.0 xi: 4.0 bow of i: 0.0 tail of i: 8.0 gama_i0: 9.0 gama_i1: 9.0
704 .0 work load gap_i: 0 gama_i1 + 1: 10.0 gama_i1 - gama_i0: 0.0 duration_time_i: 1.0 demand_i: 80.0 work
705 V_id: 2 li: 9.0 xi: 14.5 bow of i: 10.0 tail of i: 19.0 gama_i0: 2.0 gama_i1: 2
706 .0 work load gap_i: 0 gama_i1 + 1: 3.0 gama_i1 - gama_i0: 0.0 duration_time_i: 1.0 demand_i: 120.0 work
707 V_id: 3 li: 3.0 xi: 20.5 bow of i: 19.0 tail of i: 22.0 gama_i0: 2.0 gama_i1: 5
708 .0 work load gap_i: 0 gama_i1 + 1: 6.0 gama_i1 - gama_i0: 3.0 duration_time_i: 4.0 demand_i: 80.0 work
709 V_id: 4 li: 9.0 xi: 4.5 bow of i: 0.0 tail of i: 9.0 gama_i0: 5.0 gama_i1: 6.0
710 80.0 work load gap_i: 0 gama_i1 + 1: 7.0 gama_i1 - gama_i0: 1.0 duration_time_i: 2.0 demand_i: 80.0 work load_i:
711 V_id: 5 li: 6.0 xi: 25.0 bow of i: 22.0 tail of i: 28.0 gama_i0: 0.0 gama_i1: 3
712 .0 work load gap_i: 0 gama_i1 + 1: 4.0 gama_i1 - gama_i0: 3.0 duration_time_i: 4.0 demand_i: 160.0 work
713 V_id: 6 li: 3.0 xi: 8.5 bow of i: 7.0 tail of i: 10.0 gama_i0: 2.0 gama_i1: 4.0
714 160.0 work load gap_i: 0 gama_i1 + 1: 5.0 gama_i1 - gama_i0: 2.0 duration_time_i: 3.0 demand_i: 160.0 work load_i:
715 V_id: 7 li: 6.0 xi: 12.0 bow of i: 9.0 tail of i: 15.0 gama_i0: 0.0 gama_i1: 1
716 .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
717 V_id: 8 li: 9.0 xi: 22.5 bow of i: 18.0 tail of i: 27.0 gama_i0: 6.0 gama_i1: 9
718 .0 work load gap_i: 0 gama_i1 + 1: 10.0 gama_i1 - gama_i0: 3.0 duration_time_i: 4.0 demand_i: 140.0 work
719 V_id: 9 li: 5.0 xi: 12.5 bow of i: 10.0 tail of i: 15.0 gama_i0: 3.0 gama_i1: 4
720 .0 work load gap_i: 0 gama_i1 + 1: 5.0 gama_i1 - gama_i0: 1.0 duration_time_i: 2.0 demand_i: 120.0 work
721 V_id: 10 li: 3.0 xi: 7.5 bow of i: 6.0 tail of i: 9.0 gama_i0: 0.0 gama_i1: 1.0
722 80.0 work load gap_i: 0 gama_i1 + 1: 2.0 gama_i1 - gama_i0: 1.0 duration_time_i: 2.0 demand_i: 80.0 work load_i:
723 V_id: 11 li: 6.0 xi: 3.0 bow of i: 0.0 tail of i: 6.0 gama_i0: 0.0 gama_i1: 0
724 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:
725 V_id: 12 li: 5.0 xi: 2.5 bow of i: 0.0 tail of i: 5.0 gama_i0: 7.0 gama_i1: 8.0
726 160.0 work load gap_i: 0 gama_i1 + 1: 9.0 gama_i1 - gama_i0: 1.0 duration_time_i: 2.0 demand_i: 160.0 work load_i:
727 V_id: 13 li: 9.0 xi: 13.5 bow of i: 9.0 tail of i: 18.0 gama_i0: 5.0 gama_i1: 1
728 : 6.0 work load gap_i: 0 gama_i1 + 1: 7.0 gama_i1 - gama_i0: 1.0 duration_time_i: 2.0 demand_i: 120.0 work
729 V_id: 14 li: 7.0 xi: 3.5 bow of i: 0.0 tail of i: 7.0 gama_i0: 3.0 gama_i1: 4.0
730 60.0 work load gap_i: 0 gama_i1 + 1: 5.0 gama_i1 - gama_i0: 1.0 duration_time_i: 2.0 demand_i: 60.0 work load_i:
731 V_id: 15 li: 7.0 xi: 18.5 bow of i: 15.0 tail of i: 22.0 gama_i0: 0.0 gama_i1: 1
732 : 1.0 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
733 V_id: 16 li: 4.0 xi: 17.0 bow of i: 15.0 tail of i: 19.0 gama_i0: 3.0 gama_i1: 1
734 : 4.0 work load gap_i: 0 gama_i1 + 1: 5.0 gama_i1 - gama_i0: 1.0 duration_time_i: 2.0 demand_i: 80.0 work

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unknown

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718  
719 Algorithm finished and the total CPU time: 461 s  
720 End  
721
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