

unknown

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80 cord_individual_obj[indivial_i,:] = [16. 7. 90. 97.]
81 cord_individual_obj[indivial_i,:] = [17. 8. 142. 150.]
82 cord_individual_obj[indivial_i,:] = [18. 8. 169. 177.]
83 cord_individual_obj[indivial_i,:] = [19. 6. 136. 142.]
84 cord_individual_obj[indivial_i,:] = [20. 8. 129. 137.]
85 cord_individual_obj[indivial_i,:] = [21. 8. 134. 142.]
86 cord_individual_obj[indivial_i,:] = [22. 8. 109. 117.]
87 cord_individual_obj[indivial_i,:] = [23. 7. 82. 89.]
88 cord_individual_obj[indivial_i,:] = [24. 9. 104. 113.]
89
90 min(cord_individual_obj[:,3]) = 54.0
91 historl_G_best_iter[iter,3] = 54.0
92 Begin iteration:
93
94 iter = 2
95 cord_individual_obj[indivial_i,:] = [ 0. 7. 184. 191.]
96 cord_individual_obj[indivial_i,:] = [ 1. 8. 97. 105.]
97 cord_individual_obj[indivial_i,:] = [ 2. 9. 128. 137.]
98 cord_individual_obj[indivial_i,:] = [ 3. 9. 74. 83.]
99 cord_individual_obj[indivial_i,:] = [ 4. 9. 124. 133.]
100 cord_individual_obj[indivial_i,:] = [ 5. 11. 107. 118.]
101 cord_individual_obj[indivial_i,:] = [ 6. 9. 136. 145.]
102 cord_individual_obj[indivial_i,:] = [ 7. 7. 91. 98.]
103 cord_individual_obj[indivial_i,:] = [ 8. 8. 80. 88.]
104 cord_individual_obj[indivial_i,:] = [ 9. 9. 71. 80.]
105 cord_individual_obj[indivial_i,:] = [10. 7. 124. 131.]
106 cord_individual_obj[indivial_i,:] = [11. 7. 121. 128.]
107 cord_individual_obj[indivial_i,:] = [12. 8. 115. 123.]
108 cord_individual_obj[indivial_i,:] = [13. 12. 122. 134.]
109 cord_individual_obj[indivial_i,:] = [14. 9. 88. 97.]
110 cord_individual_obj[indivial_i,:] = [15. 9. 141. 150.]
111 cord_individual_obj[indivial_i,:] = [16. 9. 95. 104.]
112 cord_individual_obj[indivial_i,:] = [17. 7. 122. 129.]
113 cord_individual_obj[indivial_i,:] = [18. 9. 45. 54.]
114 cord_individual_obj[indivial_i,:] = [19. 7. 114. 121.]
115 cord_individual_obj[indivial_i,:] = [20. 9. 140. 149.]
116 cord_individual_obj[indivial_i,:] = [21. 7. 94. 101.]
117 cord_individual_obj[indivial_i,:] = [22. 9. 84. 93.]
118 cord_individual_obj[indivial_i,:] = [23. 9. 94. 103.]
119 cord_individual_obj[indivial_i,:] = [24. 8. 205. 213.]
120
121 min(cord_individual_obj[:,3]) = 54.0
122 historl_G_best_iter[iter,3] = 54.0
123 Begin iteration:
124
125 iter = 3
126 cord_individual_obj[indivial_i,:] = [ 0. 8. 120. 128.]
127 cord_individual_obj[indivial_i,:] = [ 1. 6. 36. 42.]
128 cord_individual_obj[indivial_i,:] = [ 2. 7. 108. 115.]
129 cord_individual_obj[indivial_i,:] = [ 3. 8. 94. 102.]
130 cord_individual_obj[indivial_i,:] = [ 4. 8. 134. 142.]
131 cord_individual_obj[indivial_i,:] = [ 5. 11. 179. 190.]
132 cord_individual_obj[indivial_i,:] = [ 6. 9. 171. 180.]
133 cord_individual_obj[indivial_i,:] = [ 7. 7. 121. 128.]
134 cord_individual_obj[indivial_i,:] = [ 8. 10. 109. 119.]
135 cord_individual_obj[indivial_i,:] = [ 9. 9. 89. 98.]
136 cord_individual_obj[indivial_i,:] = [10. 10. 119. 129.]
137 cord_individual_obj[indivial_i,:] = [11. 7. 168. 175.]
138 cord_individual_obj[indivial_i,:] = [12. 9. 93. 102.]
139 cord_individual_obj[indivial_i,:] = [13. 9. 122. 131.]
140 cord_individual_obj[indivial_i,:] = [14. 8. 77. 85.]
141 cord_individual_obj[indivial_i,:] = [15. 9. 86. 95.]
142 cord_individual_obj[indivial_i,:] = [16. 9. 90. 99.]
143 cord_individual_obj[indivial_i,:] = [17. 8. 103. 111.]
144 cord_individual_obj[indivial_i,:] = [18. 8. 110. 118.]
145 cord_individual_obj[indivial_i,:] = [19. 7. 151. 158.]
146 cord_individual_obj[indivial_i,:] = [20. 8. 73. 81.]
147 cord_individual_obj[indivial_i,:] = [21. 9. 147. 156.]
148 cord_individual_obj[indivial_i,:] = [22. 11. 89. 100.]
149 cord_individual_obj[indivial_i,:] = [23. 7. 95. 102.]
150 cord_individual_obj[indivial_i,:] = [24. 9. 45. 54.]
151
152 min(cord_individual_obj[:,3]) = 42.0
153 historl_G_best_iter[iter,3] = 42.0
154 Begin iteration:
155
156 iter = 4
157 cord_individual_obj[indivial_i,:] = [ 0. 7. 113. 120.]
158 cord_individual_obj[indivial_i,:] = [ 1. 9. 104. 113.]
159 cord_individual_obj[indivial_i,:] = [ 2. 10. 110. 120.]
160 cord_individual_obj[indivial_i,:] = [ 3. 11. 154. 165.]
161 cord_individual_obj[indivial_i,:] = [ 4. 10. 141. 151.]
162 cord_individual_obj[indivial_i,:] = [ 5. 6. 36. 42.]
163 cord_individual_obj[indivial_i,:] = [ 6. 8. 143. 151.]

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164 cord_individual_obj[indivial_i,:] = [ 7. 8. 100. 108.]
165 cord_individual_obj[indivial_i,:] = [ 8. 9. 139. 148.]
166 cord_individual_obj[indivial_i,:] = [ 9. 8. 85. 93.]
167 cord_individual_obj[indivial_i,:] = [10. 8. 65. 73.]
168 cord_individual_obj[indivial_i,:] = [11. 9. 94. 103.]
169 cord_individual_obj[indivial_i,:] = [12. 8. 140. 148.]
170 cord_individual_obj[indivial_i,:] = [13. 10. 167. 177.]
171 cord_individual_obj[indivial_i,:] = [14. 8. 91. 99.]
172 cord_individual_obj[indivial_i,:] = [15. 10. 136. 146.]
173 cord_individual_obj[indivial_i,:] = [16. 8. 137. 145.]
174 cord_individual_obj[indivial_i,:] = [17. 8. 154. 162.]
175 cord_individual_obj[indivial_i,:] = [18. 9. 140. 149.]
176 cord_individual_obj[indivial_i,:] = [19. 7. 95. 102.]
177 cord_individual_obj[indivial_i,:] = [20. 8. 112. 120.]
178 cord_individual_obj[indivial_i,:] = [21. 8. 98. 106.]
179 cord_individual_obj[indivial_i,:] = [22. 8. 113. 121.]
180 cord_individual_obj[indivial_i,:] = [23. 8. 151. 159.]
181 cord_individual_obj[indivial_i,:] = [24. 9. 196. 205.]
182
183 min(cord_individual_obj[:,3]) = 42.0
184 historl_G_best_iter[iter,3] = 42.0
185 Begin iteration:
186
187 iter = 5
188 cord_individual_obj[indivial_i,:] = [ 0. 7. 107. 114.]
189 cord_individual_obj[indivial_i,:] = [ 1. 11. 174. 185.]
190 cord_individual_obj[indivial_i,:] = [ 2. 9. 92. 101.]
191 cord_individual_obj[indivial_i,:] = [ 3. 8. 147. 155.]
192 cord_individual_obj[indivial_i,:] = [ 4. 8. 100. 108.]
193 cord_individual_obj[indivial_i,:] = [ 5. 9. 157. 166.]
194 cord_individual_obj[indivial_i,:] = [ 6. 10. 111. 121.]
195 cord_individual_obj[indivial_i,:] = [ 7. 7. 85. 92.]
196 cord_individual_obj[indivial_i,:] = [ 8. 9. 154. 163.]
197 cord_individual_obj[indivial_i,:] = [ 9. 7. 125. 132.]
198 cord_individual_obj[indivial_i,:] = [10. 6. 97. 103.]
199 cord_individual_obj[indivial_i,:] = [11. 7. 119. 126.]
200 cord_individual_obj[indivial_i,:] = [12. 9. 96. 105.]
201 cord_individual_obj[indivial_i,:] = [13. 7. 136. 143.]
202 cord_individual_obj[indivial_i,:] = [14. 7. 72. 79.]
203 cord_individual_obj[indivial_i,:] = [15. 6. 130. 136.]
204 cord_individual_obj[indivial_i,:] = [16. 10. 110. 120.]
205 cord_individual_obj[indivial_i,:] = [17. 8. 153. 161.]
206 cord_individual_obj[indivial_i,:] = [18. 7. 101. 108.]
207 cord_individual_obj[indivial_i,:] = [19. 6. 131. 137.]
208 cord_individual_obj[indivial_i,:] = [20. 9. 167. 176.]
209 cord_individual_obj[indivial_i,:] = [21. 8. 172. 180.]
210 cord_individual_obj[indivial_i,:] = [22. 7. 102. 109.]
211 cord_individual_obj[indivial_i,:] = [23. 8. 129. 137.]
212 cord_individual_obj[indivial_i,:] = [24. 6. 36. 42.]
213
214 min(cord_individual_obj[:,3]) = 42.0
215 historl_G_best_iter[iter,3] = 42.0
216 Begin iteration:
217
218 iter = 6
219 cord_individual_obj[indivial_i,:] = [ 0. 8. 122. 130.]
220 cord_individual_obj[indivial_i,:] = [ 1. 6. 36. 42.]
221 cord_individual_obj[indivial_i,:] = [ 2. 9. 123. 132.]
222 cord_individual_obj[indivial_i,:] = [ 3. 9. 169. 178.]
223 cord_individual_obj[indivial_i,:] = [ 4. 11. 110. 121.]
224 cord_individual_obj[indivial_i,:] = [ 5. 9. 93. 102.]
225 cord_individual_obj[indivial_i,:] = [ 6. 6. 100. 106.]
226 cord_individual_obj[indivial_i,:] = [ 7. 10. 88. 98.]
227 cord_individual_obj[indivial_i,:] = [ 8. 9. 102. 111.]
228 cord_individual_obj[indivial_i,:] = [ 9. 8. 98. 106.]
229 cord_individual_obj[indivial_i,:] = [10. 9. 78. 87.]
230 cord_individual_obj[indivial_i,:] = [11. 9. 155. 164.]
231 cord_individual_obj[indivial_i,:] = [12. 9. 157. 166.]
232 cord_individual_obj[indivial_i,:] = [13. 8. 89. 97.]
233 cord_individual_obj[indivial_i,:] = [14. 10. 106. 116.]
234 cord_individual_obj[indivial_i,:] = [15. 9. 90. 99.]
235 cord_individual_obj[indivial_i,:] = [16. 8. 65. 73.]
236 cord_individual_obj[indivial_i,:] = [17. 9. 150. 159.]
237 cord_individual_obj[indivial_i,:] = [18. 8. 174. 182.]
238 cord_individual_obj[indivial_i,:] = [19. 7. 154. 161.]
239 cord_individual_obj[indivial_i,:] = [20. 7. 110. 117.]
240 cord_individual_obj[indivial_i,:] = [21. 8. 150. 158.]
241 cord_individual_obj[indivial_i,:] = [22. 8. 79. 87.]
242 cord_individual_obj[indivial_i,:] = [23. 7. 111. 118.]
243 cord_individual_obj[indivial_i,:] = [24. 9. 196. 205.]
244
245 min(cord_individual_obj[:,3]) = 42.0
246 historl_G_best_iter[iter,3] = 42.0
247 Begin iteration:

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248
249 iter = 7
250 cord_individual_obj[indivial_i, :] = [ 0.  8. 173. 181.]
251 cord_individual_obj[indivial_i, :] = [ 1.  8. 104. 112.]
252 cord_individual_obj[indivial_i, :] = [ 2.  6. 89. 95.]
253 cord_individual_obj[indivial_i, :] = [ 3.  8. 121. 129.]
254 cord_individual_obj[indivial_i, :] = [ 4. 10. 109. 119.]
255 cord_individual_obj[indivial_i, :] = [ 5.  7. 146. 153.]
256 cord_individual_obj[indivial_i, :] = [ 6.  8. 114. 122.]
257 cord_individual_obj[indivial_i, :] = [ 7.  9. 110. 119.]
258 cord_individual_obj[indivial_i, :] = [ 8.  9. 128. 137.]
259 cord_individual_obj[indivial_i, :] = [ 9.  7. 113. 120.]
260 cord_individual_obj[indivial_i, :] = [10.  9. 118. 127.]
261 cord_individual_obj[indivial_i, :] = [11.  9. 118. 127.]
262 cord_individual_obj[indivial_i, :] = [12.  8. 173. 181.]
263 cord_individual_obj[indivial_i, :] = [13.  7. 136. 143.]
264 cord_individual_obj[indivial_i, :] = [14.  7. 83. 90.]
265 cord_individual_obj[indivial_i, :] = [15.  7. 159. 166.]
266 cord_individual_obj[indivial_i, :] = [16. 11. 115. 126.]
267 cord_individual_obj[indivial_i, :] = [17.  7. 63. 70.]
268 cord_individual_obj[indivial_i, :] = [18.  7. 195. 202.]
269 cord_individual_obj[indivial_i, :] = [19.  7. 106. 113.]
270 cord_individual_obj[indivial_i, :] = [20.  7. 62. 69.]
271 cord_individual_obj[indivial_i, :] = [21.  9. 91. 100.]
272 cord_individual_obj[indivial_i, :] = [22.  7. 143. 150.]
273 cord_individual_obj[indivial_i, :] = [23. 10. 173. 183.]
274 cord_individual_obj[indivial_i, :] = [24.  6. 36. 42.]
275
276 min(cord_individual_obj[:, 3]) = 42.0
277 historl_G_best_iter[iter, 3] = 42.0
278 Begin iteration:
279
280 iter = 8
281 cord_individual_obj[indivial_i, :] = [ 0.  7. 129. 136.]
282 cord_individual_obj[indivial_i, :] = [ 1.  7. 99. 106.]
283 cord_individual_obj[indivial_i, :] = [ 2.  8. 121. 129.]
284 cord_individual_obj[indivial_i, :] = [ 3. 10. 116. 126.]
285 cord_individual_obj[indivial_i, :] = [ 4.  7. 157. 164.]
286 cord_individual_obj[indivial_i, :] = [ 5.  7. 110. 117.]
287 cord_individual_obj[indivial_i, :] = [ 6.  8. 123. 131.]
288 cord_individual_obj[indivial_i, :] = [ 7. 10. 178. 188.]
289 cord_individual_obj[indivial_i, :] = [ 8.  7. 68. 75.]
290 cord_individual_obj[indivial_i, :] = [ 9.  7. 87. 94.]
291 cord_individual_obj[indivial_i, :] = [10.  9. 115. 124.]
292 cord_individual_obj[indivial_i, :] = [11.  7. 79. 86.]
293 cord_individual_obj[indivial_i, :] = [12.  8. 164. 172.]
294 cord_individual_obj[indivial_i, :] = [13.  8. 116. 124.]
295 cord_individual_obj[indivial_i, :] = [14.  8. 210. 218.]
296 cord_individual_obj[indivial_i, :] = [15.  7. 153. 160.]
297 cord_individual_obj[indivial_i, :] = [16. 10. 105. 115.]
298 cord_individual_obj[indivial_i, :] = [17.  9. 153. 162.]
299 cord_individual_obj[indivial_i, :] = [18.  6. 36. 42.]
300 cord_individual_obj[indivial_i, :] = [19.  7. 94. 101.]
301 cord_individual_obj[indivial_i, :] = [20.  7. 158. 165.]
302 cord_individual_obj[indivial_i, :] = [21.  9. 92. 101.]
303 cord_individual_obj[indivial_i, :] = [22.  8. 98. 106.]
304 cord_individual_obj[indivial_i, :] = [23.  7. 82. 89.]
305 cord_individual_obj[indivial_i, :] = [24.  9. 196. 205.]
306
307 min(cord_individual_obj[:, 3]) = 42.0
308 historl_G_best_iter[iter, 3] = 42.0
309 Begin iteration:
310
311 iter = 9
312 cord_individual_obj[indivial_i, :] = [ 0.  7. 110. 117.]
313 cord_individual_obj[indivial_i, :] = [ 1.  9. 104. 113.]
314 cord_individual_obj[indivial_i, :] = [ 2.  8. 110. 118.]
315 cord_individual_obj[indivial_i, :] = [ 3.  7. 141. 148.]
316 cord_individual_obj[indivial_i, :] = [ 4. 11. 120. 131.]
317 cord_individual_obj[indivial_i, :] = [ 5.  9. 135. 144.]
318 cord_individual_obj[indivial_i, :] = [ 6.  7. 116. 123.]
319 cord_individual_obj[indivial_i, :] = [ 7.  9. 144. 153.]
320 cord_individual_obj[indivial_i, :] = [ 8.  8. 138. 146.]
321 cord_individual_obj[indivial_i, :] = [ 9.  8. 87. 95.]
322 cord_individual_obj[indivial_i, :] = [10.  7. 67. 74.]
323 cord_individual_obj[indivial_i, :] = [11.  8. 81. 89.]
324 cord_individual_obj[indivial_i, :] = [12.  8. 91. 99.]
325 cord_individual_obj[indivial_i, :] = [13.  9. 167. 176.]
326 cord_individual_obj[indivial_i, :] = [14.  6. 36. 42.]
327 cord_individual_obj[indivial_i, :] = [15.  7. 96. 103.]
328 cord_individual_obj[indivial_i, :] = [16.  8. 134. 142.]
329 cord_individual_obj[indivial_i, :] = [17. 10. 134. 144.]
330 cord_individual_obj[indivial_i, :] = [18.  9. 144. 153.]
331 cord_individual_obj[indivial_i, :] = [19.  8. 163. 171.]

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332     cord_individual_obj[indivial_i, :] = [ 20.  7. 102. 109.]
333     cord_individual_obj[indivial_i, :] = [ 21. 10. 152. 162.]
334     cord_individual_obj[indivial_i, :] = [ 22.  9. 116. 125.]
335     cord_individual_obj[indivial_i, :] = [ 23.  9. 115. 124.]
336     cord_individual_obj[indivial_i, :] = [ 24.  7. 181. 188.]
337
338 min(cord_individual_obj[:, 3]) = 42.0
339 histol_G_best_iter[iter, 3] = 42.0
340 Begin iteration:
341
342 iter = 10
343     cord_individual_obj[indivial_i, :] = [ 0.  9. 126. 135.]
344     cord_individual_obj[indivial_i, :] = [ 1.  7. 95. 102.]
345     cord_individual_obj[indivial_i, :] = [ 2.  9. 150. 159.]
346     cord_individual_obj[indivial_i, :] = [ 3.  9. 139. 148.]
347     cord_individual_obj[indivial_i, :] = [ 4.  9. 124. 133.]
348     cord_individual_obj[indivial_i, :] = [ 5.  7. 130. 137.]
349     cord_individual_obj[indivial_i, :] = [ 6.  9. 116. 125.]
350     cord_individual_obj[indivial_i, :] = [ 7.  8. 107. 115.]
351     cord_individual_obj[indivial_i, :] = [ 8.  8. 128. 136.]
352     cord_individual_obj[indivial_i, :] = [ 9.  7. 138. 145.]
353     cord_individual_obj[indivial_i, :] = [ 10. 9. 108. 117.]
354     cord_individual_obj[indivial_i, :] = [ 11. 8. 122. 130.]
355     cord_individual_obj[indivial_i, :] = [ 12. 9. 113. 122.]
356     cord_individual_obj[indivial_i, :] = [ 13. 6. 174. 180.]
357     cord_individual_obj[indivial_i, :] = [ 14. 8. 91. 99.]
358     cord_individual_obj[indivial_i, :] = [ 15. 7. 158. 165.]
359     cord_individual_obj[indivial_i, :] = [ 16. 10. 110. 120.]
360     cord_individual_obj[indivial_i, :] = [ 17. 10. 170. 180.]
361     cord_individual_obj[indivial_i, :] = [ 18. 8. 164. 172.]
362     cord_individual_obj[indivial_i, :] = [ 19. 7. 111. 118.]
363     cord_individual_obj[indivial_i, :] = [ 20. 9. 158. 167.]
364     cord_individual_obj[indivial_i, :] = [ 21. 6. 147. 153.]
365     cord_individual_obj[indivial_i, :] = [ 22. 9. 150. 159.]
366     cord_individual_obj[indivial_i, :] = [ 23. 7. 184. 191.]
367     cord_individual_obj[indivial_i, :] = [ 24. 6. 36. 42.]
368
369 min(cord_individual_obj[:, 3]) = 42.0
370 histol_G_best_iter[iter, 3] = 42.0
371 Begin iteration:
372
373 iter = 11
374     cord_individual_obj[indivial_i, :] = [ 0.  9. 132. 141.]
375     cord_individual_obj[indivial_i, :] = [ 1.  9. 132. 141.]
376     cord_individual_obj[indivial_i, :] = [ 2.  9. 97. 106.]
377     cord_individual_obj[indivial_i, :] = [ 3.  8. 51. 59.]
378     cord_individual_obj[indivial_i, :] = [ 4.  8. 79. 87.]
379     cord_individual_obj[indivial_i, :] = [ 5.  8. 108. 116.]
380     cord_individual_obj[indivial_i, :] = [ 6.  9. 117. 126.]
381     cord_individual_obj[indivial_i, :] = [ 7. 11. 177. 188.]
382     cord_individual_obj[indivial_i, :] = [ 8.  8. 136. 144.]
383     cord_individual_obj[indivial_i, :] = [ 9.  8. 61. 69.]
384     cord_individual_obj[indivial_i, :] = [ 10. 9. 111. 120.]
385     cord_individual_obj[indivial_i, :] = [ 11. 7. 98. 105.]
386     cord_individual_obj[indivial_i, :] = [ 12. 9. 136. 145.]
387     cord_individual_obj[indivial_i, :] = [ 13. 7. 87. 94.]
388     cord_individual_obj[indivial_i, :] = [ 14. 7. 101. 108.]
389     cord_individual_obj[indivial_i, :] = [ 15. 8. 93. 101.]
390     cord_individual_obj[indivial_i, :] = [ 16. 9. 143. 152.]
391     cord_individual_obj[indivial_i, :] = [ 17. 8. 173. 181.]
392     cord_individual_obj[indivial_i, :] = [ 18. 6. 181. 187.]
393     cord_individual_obj[indivial_i, :] = [ 19. 7. 105. 112.]
394     cord_individual_obj[indivial_i, :] = [ 20. 10. 134. 144.]
395     cord_individual_obj[indivial_i, :] = [ 21. 8. 128. 136.]
396     cord_individual_obj[indivial_i, :] = [ 22. 10. 213. 223.]
397     cord_individual_obj[indivial_i, :] = [ 23. 6. 36. 42.]
398     cord_individual_obj[indivial_i, :] = [ 24. 9. 196. 205.]
399
400 min(cord_individual_obj[:, 3]) = 42.0
401 histol_G_best_iter[iter, 3] = 42.0
402 Begin iteration:
403
404 iter = 12
405     cord_individual_obj[indivial_i, :] = [ 0.  7. 186. 193.]
406     cord_individual_obj[indivial_i, :] = [ 1.  6. 90. 96.]
407     cord_individual_obj[indivial_i, :] = [ 2.  7. 97. 104.]
408     cord_individual_obj[indivial_i, :] = [ 3.  8. 69. 77.]
409     cord_individual_obj[indivial_i, :] = [ 4. 10. 143. 153.]
410     cord_individual_obj[indivial_i, :] = [ 5.  7. 106. 113.]
411     cord_individual_obj[indivial_i, :] = [ 6.  8. 120. 128.]
412     cord_individual_obj[indivial_i, :] = [ 7. 10. 147. 157.]
413     cord_individual_obj[indivial_i, :] = [ 8. 10. 145. 155.]
414     cord_individual_obj[indivial_i, :] = [ 9.  8. 85. 93.]
415     cord_individual_obj[indivial_i, :] = [ 10. 9. 103. 112.]

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416 cord_individual_obj[indivial_i,:] = [ 11. 8. 182. 190.]
417 cord_individual_obj[indivial_i,:] = [ 12. 8. 164. 172.]
418 cord_individual_obj[indivial_i,:] = [ 13. 8. 103. 111.]
419 cord_individual_obj[indivial_i,:] = [ 14. 7. 142. 149.]
420 cord_individual_obj[indivial_i,:] = [ 15. 6. 154. 160.]
421 cord_individual_obj[indivial_i,:] = [ 16. 8. 124. 132.]
422 cord_individual_obj[indivial_i,:] = [ 17. 7. 70. 77.]
423 cord_individual_obj[indivial_i,:] = [ 18. 8. 101. 109.]
424 cord_individual_obj[indivial_i,:] = [ 19. 6. 112. 118.]
425 cord_individual_obj[indivial_i,:] = [ 20. 7. 153. 160.]
426 cord_individual_obj[indivial_i,:] = [ 21. 9. 132. 141.]
427 cord_individual_obj[indivial_i,:] = [ 22. 6. 36. 42.]
428 cord_individual_obj[indivial_i,:] = [ 23. 8. 151. 159.]
429 cord_individual_obj[indivial_i,:] = [ 24. 6. 101. 107.]
430
431 min(cord_individual_obj[:,3]) = 42.0
432 histol_G_best_iter[iter,3] = 42.0
433 Begin iteration:
434
435 iter = 13
436 cord_individual_obj[indivial_i,:] = [ 0. 6. 36. 42.]
437 cord_individual_obj[indivial_i,:] = [ 1. 9. 98. 107.]
438 cord_individual_obj[indivial_i,:] = [ 2. 8. 125. 133.]
439 cord_individual_obj[indivial_i,:] = [ 3. 9. 166. 175.]
440 cord_individual_obj[indivial_i,:] = [ 4. 7. 104. 111.]
441 cord_individual_obj[indivial_i,:] = [ 5. 7. 61. 68.]
442 cord_individual_obj[indivial_i,:] = [ 6. 9. 100. 109.]
443 cord_individual_obj[indivial_i,:] = [ 7. 7. 94. 101.]
444 cord_individual_obj[indivial_i,:] = [ 8. 9. 166. 175.]
445 cord_individual_obj[indivial_i,:] = [ 9. 9. 47. 56.]
446 cord_individual_obj[indivial_i,:] = [ 10. 9. 116. 125.]
447 cord_individual_obj[indivial_i,:] = [ 11. 8. 123. 131.]
448 cord_individual_obj[indivial_i,:] = [ 12. 9. 112. 121.]
449 cord_individual_obj[indivial_i,:] = [ 13. 8. 131. 139.]
450 cord_individual_obj[indivial_i,:] = [ 14. 8. 31. 39.]
451 cord_individual_obj[indivial_i,:] = [ 15. 6. 98. 104.]
452 cord_individual_obj[indivial_i,:] = [ 16. 10. 77. 87.]
453 cord_individual_obj[indivial_i,:] = [ 17. 9. 131. 140.]
454 cord_individual_obj[indivial_i,:] = [ 18. 7. 161. 168.]
455 cord_individual_obj[indivial_i,:] = [ 19. 8. 87. 95.]
456 cord_individual_obj[indivial_i,:] = [ 20. 8. 125. 133.]
457 cord_individual_obj[indivial_i,:] = [ 21. 7. 71. 78.]
458 cord_individual_obj[indivial_i,:] = [ 22. 10. 127. 137.]
459 cord_individual_obj[indivial_i,:] = [ 23. 7. 101. 108.]
460 cord_individual_obj[indivial_i,:] = [ 24. 8. 156. 164.]
461
462 min(cord_individual_obj[:,3]) = 39.0
463 histol_G_best_iter[iter,3] = 39.0
464 Begin iteration:
465
466 iter = 14
467 cord_individual_obj[indivial_i,:] = [ 0. 9. 139. 148.]
468 cord_individual_obj[indivial_i,:] = [ 1. 8. 117. 125.]
469 cord_individual_obj[indivial_i,:] = [ 2. 8. 147. 155.]
470 cord_individual_obj[indivial_i,:] = [ 3. 8. 31. 39.]
471 cord_individual_obj[indivial_i,:] = [ 4. 6. 163. 169.]
472 cord_individual_obj[indivial_i,:] = [ 5. 11. 142. 153.]
473 cord_individual_obj[indivial_i,:] = [ 6. 10. 124. 134.]
474 cord_individual_obj[indivial_i,:] = [ 7. 9. 76. 85.]
475 cord_individual_obj[indivial_i,:] = [ 8. 9. 131. 140.]
476 cord_individual_obj[indivial_i,:] = [ 9. 11. 75. 86.]
477 cord_individual_obj[indivial_i,:] = [ 10. 9. 139. 148.]
478 cord_individual_obj[indivial_i,:] = [ 11. 9. 174. 183.]
479 cord_individual_obj[indivial_i,:] = [ 12. 11. 94. 105.]
480 cord_individual_obj[indivial_i,:] = [ 13. 12. 187. 199.]
481 cord_individual_obj[indivial_i,:] = [ 14. 9. 97. 106.]
482 cord_individual_obj[indivial_i,:] = [ 15. 7. 133. 140.]
483 cord_individual_obj[indivial_i,:] = [ 16. 7. 88. 95.]
484 cord_individual_obj[indivial_i,:] = [ 17. 10. 158. 168.]
485 cord_individual_obj[indivial_i,:] = [ 18. 8. 190. 198.]
486 cord_individual_obj[indivial_i,:] = [ 19. 7. 136. 143.]
487 cord_individual_obj[indivial_i,:] = [ 20. 8. 177. 185.]
488 cord_individual_obj[indivial_i,:] = [ 21. 8. 132. 140.]
489 cord_individual_obj[indivial_i,:] = [ 22. 8. 144. 152.]
490 cord_individual_obj[indivial_i,:] = [ 23. 9. 148. 157.]
491 cord_individual_obj[indivial_i,:] = [ 24. 10. 87. 97.]
492
493 min(cord_individual_obj[:,3]) = 39.0
494 histol_G_best_iter[iter,3] = 39.0
495 Begin iteration:
496
497 iter = 15
498 cord_individual_obj[indivial_i,:] = [ 0. 9. 154. 163.]
499 cord_individual_obj[indivial_i,:] = [ 1. 8. 119. 127.]

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500 cord_individual_obj[indivial_i,:] = [ 2. 8. 100. 108.]
501 cord_individual_obj[indivial_i,:] = [ 3. 10. 67. 77.]
502 cord_individual_obj[indivial_i,:] = [ 4. 10. 172. 182.]
503 cord_individual_obj[indivial_i,:] = [ 5. 9. 136. 145.]
504 cord_individual_obj[indivial_i,:] = [ 6. 9. 103. 112.]
505 cord_individual_obj[indivial_i,:] = [ 7. 9. 116. 125.]
506 cord_individual_obj[indivial_i,:] = [ 8. 9. 95. 104.]
507 cord_individual_obj[indivial_i,:] = [ 9. 11. 107. 118.]
508 cord_individual_obj[indivial_i,:] = [10. 10. 67. 77.]
509 cord_individual_obj[indivial_i,:] = [11. 8. 48. 56.]
510 cord_individual_obj[indivial_i,:] = [12. 11. 108. 119.]
511 cord_individual_obj[indivial_i,:] = [13. 8. 31. 39.]
512 cord_individual_obj[indivial_i,:] = [14. 8. 95. 103.]
513 cord_individual_obj[indivial_i,:] = [15. 7. 90. 97.]
514 cord_individual_obj[indivial_i,:] = [16. 10. 119. 129.]
515 cord_individual_obj[indivial_i,:] = [17. 9. 146. 155.]
516 cord_individual_obj[indivial_i,:] = [18. 7. 89. 96.]
517 cord_individual_obj[indivial_i,:] = [19. 7. 70. 77.]
518 cord_individual_obj[indivial_i,:] = [20. 8. 154. 162.]
519 cord_individual_obj[indivial_i,:] = [21. 7. 106. 113.]
520 cord_individual_obj[indivial_i,:] = [22. 9. 35. 44.]
521 cord_individual_obj[indivial_i,:] = [23. 8. 101. 109.]
522 cord_individual_obj[indivial_i,:] = [24. 9. 99. 108.]
523
524 min(cord_individual_obj[:, 3]) = 39.0
525 histol_G_best_iter[iter, 3] = 39.0
526 Begin iteration:
527
528 iter = 16
529 cord_individual_obj[indivial_i,:] = [ 0. 11. 142. 153.]
530 cord_individual_obj[indivial_i,:] = [ 1. 8. 124. 132.]
531 cord_individual_obj[indivial_i,:] = [ 2. 8. 91. 99.]
532 cord_individual_obj[indivial_i,:] = [ 3. 11. 73. 84.]
533 cord_individual_obj[indivial_i,:] = [ 4. 8. 31. 39.]
534 cord_individual_obj[indivial_i,:] = [ 5. 11. 110. 121.]
535 cord_individual_obj[indivial_i,:] = [ 6. 8. 118. 126.]
536 cord_individual_obj[indivial_i,:] = [ 7. 8. 102. 110.]
537 cord_individual_obj[indivial_i,:] = [ 8. 9. 180. 189.]
538 cord_individual_obj[indivial_i,:] = [ 9. 11. 71. 82.]
539 cord_individual_obj[indivial_i,:] = [10. 10. 110. 120.]
540 cord_individual_obj[indivial_i,:] = [11. 8. 154. 162.]
541 cord_individual_obj[indivial_i,:] = [12. 8. 121. 129.]
542 cord_individual_obj[indivial_i,:] = [13. 9. 150. 159.]
543 cord_individual_obj[indivial_i,:] = [14. 8. 90. 98.]
544 cord_individual_obj[indivial_i,:] = [15. 7. 124. 131.]
545 cord_individual_obj[indivial_i,:] = [16. 8. 143. 151.]
546 cord_individual_obj[indivial_i,:] = [17. 10. 113. 123.]
547 cord_individual_obj[indivial_i,:] = [18. 7. 118. 125.]
548 cord_individual_obj[indivial_i,:] = [19. 9. 135. 144.]
549 cord_individual_obj[indivial_i,:] = [20. 9. 198. 207.]
550 cord_individual_obj[indivial_i,:] = [21. 11. 87. 98.]
551 cord_individual_obj[indivial_i,:] = [22. 9. 64. 73.]
552 cord_individual_obj[indivial_i,:] = [23. 11. 122. 133.]
553 cord_individual_obj[indivial_i,:] = [24. 11. 89. 100.]
554
555 min(cord_individual_obj[:, 3]) = 39.0
556 histol_G_best_iter[iter, 3] = 39.0
557 Begin iteration:
558
559 iter = 17
560 cord_individual_obj[indivial_i,:] = [ 0. 9. 127. 136.]
561 cord_individual_obj[indivial_i,:] = [ 1. 9. 113. 122.]
562 cord_individual_obj[indivial_i,:] = [ 2. 7. 123. 130.]
563 cord_individual_obj[indivial_i,:] = [ 3. 10. 73. 83.]
564 cord_individual_obj[indivial_i,:] = [ 4. 7. 165. 172.]
565 cord_individual_obj[indivial_i,:] = [ 5. 9. 119. 128.]
566 cord_individual_obj[indivial_i,:] = [ 6. 9. 115. 124.]
567 cord_individual_obj[indivial_i,:] = [ 7. 10. 146. 156.]
568 cord_individual_obj[indivial_i,:] = [ 8. 9. 154. 163.]
569 cord_individual_obj[indivial_i,:] = [ 9. 11. 167. 178.]
570 cord_individual_obj[indivial_i,:] = [10. 10. 121. 131.]
571 cord_individual_obj[indivial_i,:] = [11. 9. 177. 186.]
572 cord_individual_obj[indivial_i,:] = [12. 9. 86. 95.]
573 cord_individual_obj[indivial_i,:] = [13. 10. 146. 156.]
574 cord_individual_obj[indivial_i,:] = [14. 9. 84. 93.]
575 cord_individual_obj[indivial_i,:] = [15. 8. 113. 121.]
576 cord_individual_obj[indivial_i,:] = [16. 9. 124. 133.]
577 cord_individual_obj[indivial_i,:] = [17. 9. 102. 111.]
578 cord_individual_obj[indivial_i,:] = [18. 7. 140. 147.]
579 cord_individual_obj[indivial_i,:] = [19. 9. 132. 141.]
580 cord_individual_obj[indivial_i,:] = [20. 8. 31. 39.]
581 cord_individual_obj[indivial_i,:] = [21. 9. 81. 90.]
582 cord_individual_obj[indivial_i,:] = [22. 8. 116. 124.]
583 cord_individual_obj[indivial_i,:] = [23. 10. 125. 135.]

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584     cord_individual_obj[indivial_i, :] = [ 24. 10. 112. 122.]
585
586     min(cord_individual_obj[:, 3]) = 39.0
587     historl_G_best_iter[iter, 3] = 39.0
588 Begin iteration:
589
590 iter = 18
591     cord_individual_obj[indivial_i, :] = [ 0. 9. 90. 99.]
592     cord_individual_obj[indivial_i, :] = [ 1. 7. 141. 148.]
593     cord_individual_obj[indivial_i, :] = [ 2. 7. 81. 88.]
594     cord_individual_obj[indivial_i, :] = [ 3. 8. 119. 127.]
595     cord_individual_obj[indivial_i, :] = [ 4. 9. 162. 171.]
596     cord_individual_obj[indivial_i, :] = [ 5. 10. 132. 142.]
597     cord_individual_obj[indivial_i, :] = [ 6. 8. 78. 86.]
598     cord_individual_obj[indivial_i, :] = [ 7. 7. 134. 141.]
599     cord_individual_obj[indivial_i, :] = [ 8. 10. 128. 138.]
600     cord_individual_obj[indivial_i, :] = [ 9. 9. 99. 108.]
601     cord_individual_obj[indivial_i, :] = [ 10. 9. 150. 159.]
602     cord_individual_obj[indivial_i, :] = [ 11. 8. 31. 39.]
603     cord_individual_obj[indivial_i, :] = [ 12. 8. 100. 108.]
604     cord_individual_obj[indivial_i, :] = [ 13. 9. 141. 150.]
605     cord_individual_obj[indivial_i, :] = [ 14. 8. 51. 59.]
606     cord_individual_obj[indivial_i, :] = [ 15. 7. 40. 47.]
607     cord_individual_obj[indivial_i, :] = [ 16. 7. 48. 55.]
608     cord_individual_obj[indivial_i, :] = [ 17. 9. 88. 97.]
609     cord_individual_obj[indivial_i, :] = [ 18. 7. 95. 102.]
610     cord_individual_obj[indivial_i, :] = [ 19. 7. 53. 60.]
611     cord_individual_obj[indivial_i, :] = [ 20. 8. 194. 202.]
612     cord_individual_obj[indivial_i, :] = [ 21. 8. 120. 128.]
613     cord_individual_obj[indivial_i, :] = [ 22. 9. 97. 106.]
614     cord_individual_obj[indivial_i, :] = [ 23. 8. 124. 132.]
615     cord_individual_obj[indivial_i, :] = [ 24. 8. 134. 142.]
616
617     min(cord_individual_obj[:, 3]) = 39.0
618     historl_G_best_iter[iter, 3] = 39.0
619 Begin iteration:
620
621 iter = 19
622     cord_individual_obj[indivial_i, :] = [ 0. 9. 133. 142.]
623     cord_individual_obj[indivial_i, :] = [ 1. 9. 141. 150.]
624     cord_individual_obj[indivial_i, :] = [ 2. 7. 96. 103.]
625     cord_individual_obj[indivial_i, :] = [ 3. 9. 121. 130.]
626     cord_individual_obj[indivial_i, :] = [ 4. 6. 120. 126.]
627     cord_individual_obj[indivial_i, :] = [ 5. 14. 119. 133.]
628     cord_individual_obj[indivial_i, :] = [ 6. 10. 113. 123.]
629     cord_individual_obj[indivial_i, :] = [ 7. 9. 138. 147.]
630     cord_individual_obj[indivial_i, :] = [ 8. 9. 136. 145.]
631     cord_individual_obj[indivial_i, :] = [ 9. 10. 121. 131.]
632     cord_individual_obj[indivial_i, :] = [ 10. 11. 169. 180.]
633     cord_individual_obj[indivial_i, :] = [ 11. 9. 192. 201.]
634     cord_individual_obj[indivial_i, :] = [ 12. 9. 183. 192.]
635     cord_individual_obj[indivial_i, :] = [ 13. 9. 75. 84.]
636     cord_individual_obj[indivial_i, :] = [ 14. 7. 73. 80.]
637     cord_individual_obj[indivial_i, :] = [ 15. 9. 144. 153.]
638     cord_individual_obj[indivial_i, :] = [ 16. 7. 107. 114.]
639     cord_individual_obj[indivial_i, :] = [ 17. 8. 138. 146.]
640     cord_individual_obj[indivial_i, :] = [ 18. 9. 101. 110.]
641     cord_individual_obj[indivial_i, :] = [ 19. 8. 71. 79.]
642     cord_individual_obj[indivial_i, :] = [ 20. 8. 31. 39.]
643     cord_individual_obj[indivial_i, :] = [ 21. 9. 80. 89.]
644     cord_individual_obj[indivial_i, :] = [ 22. 11. 98. 109.]
645     cord_individual_obj[indivial_i, :] = [ 23. 10. 75. 85.]
646     cord_individual_obj[indivial_i, :] = [ 24. 8. 130. 138.]
647
648     min(cord_individual_obj[:, 3]) = 39.0
649     historl_G_best_iter[iter, 3] = 39.0
650 Begin iteration:
651
652 iter = 20
653     cord_individual_obj[indivial_i, :] = [ 0. 10. 174. 184.]
654     cord_individual_obj[indivial_i, :] = [ 1. 11. 126. 137.]
655     cord_individual_obj[indivial_i, :] = [ 2. 10. 137. 147.]
656     cord_individual_obj[indivial_i, :] = [ 3. 11. 151. 162.]
657     cord_individual_obj[indivial_i, :] = [ 4. 7. 135. 142.]
658     cord_individual_obj[indivial_i, :] = [ 5. 10. 117. 127.]
659     cord_individual_obj[indivial_i, :] = [ 6. 8. 91. 99.]
660     cord_individual_obj[indivial_i, :] = [ 7. 9. 96. 105.]
661     cord_individual_obj[indivial_i, :] = [ 8. 9. 64. 73.]
662     cord_individual_obj[indivial_i, :] = [ 9. 11. 239. 250.]
663     cord_individual_obj[indivial_i, :] = [ 10. 10. 159. 169.]
664     cord_individual_obj[indivial_i, :] = [ 11. 8. 31. 39.]
665     cord_individual_obj[indivial_i, :] = [ 12. 8. 63. 71.]
666     cord_individual_obj[indivial_i, :] = [ 13. 10. 184. 194.]
667     cord_individual_obj[indivial_i, :] = [ 14. 9. 107. 116.]

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668 cord_individual_obj[indivial_i,:] = [ 15. 7. 117. 124.]
669 cord_individual_obj[indivial_i,:] = [ 16. 8. 148. 156.]
670 cord_individual_obj[indivial_i,:] = [ 17. 11. 116. 127.]
671 cord_individual_obj[indivial_i,:] = [ 18. 8. 140. 148.]
672 cord_individual_obj[indivial_i,:] = [ 19. 8. 145. 153.]
673 cord_individual_obj[indivial_i,:] = [ 20. 8. 200. 208.]
674 cord_individual_obj[indivial_i,:] = [ 21. 9. 138. 147.]
675 cord_individual_obj[indivial_i,:] = [ 22. 9. 118. 127.]
676 cord_individual_obj[indivial_i,:] = [ 23. 11. 125. 136.]
677 cord_individual_obj[indivial_i,:] = [ 24. 9. 127. 136.]
678
679 min(cord_individual_obj[:,3]) = 39.0
680 historl_G_best_iter[iter,3] = 39.0
681 Iteration calculate over
682
683
684
685
686 All item are in Bin and:
687 Bin area = 1080
688 Real_area = 227.0
689 Proportion_of_area = 0.2101851851851852
690 BEST_CHROM =
691 berth: [23.5 14. 5.5 3.5 23.5 4.5 2. 9.5 4. 12. 11. 9.5 17.5]
692 time: [0. 0. 0. 5. 3. 6. 0. 2. 3. 6. 3. 0. 0.]
693 num_QC: [3. 3. 3. 4. 2. 3. 3. 4. 4. 3. 3. 4. 2.]
694 Objective function values and some other indicators:
695 Obj0 = 8.00 Obj1 = 31.00 Obj0 + Obj1 = 39.00
696 Total movement of crane: 0.00
697 Total waiting time in berth position: 28.00
698 Total index of q during berthing: 772.00
699 Specific arrangement for each vessel:
700 V_id: 0 li: 9.0 xi: 23.5 bow of i: 19.0 tail of i: 28.0 gama_i0: 0.0 gama_i1: 2
701 .0 gama_i1 + 1: 3.0 gama_i1 - gama_i0: 2.0 duration_time_i: 3.0 demand_i: 140.0 work
702 load_i: 140.0 work load gap_i: 0
703 V_id: 1 li: 4.0 xi: 14.0 bow of i: 12.0 tail of i: 16.0 gama_i0: 0.0 gama_i1: 1
704 .0 gama_i1 + 1: 2.0 gama_i1 - gama_i0: 1.0 duration_time_i: 2.0 demand_i: 120.0 work
705 load_i: 120.0 work load gap_i: 0
706 V_id: 2 li: 3.0 xi: 5.5 bow of i: 4.0 tail of i: 7.0 gama_i0: 0.0 gama_i1: 1.0
707 .0 gama_i1 + 1: 2.0 gama_i1 - gama_i0: 1.0 duration_time_i: 2.0 demand_i: 100.0 work load_i:
708 100.0 work load gap_i: 0
709 V_id: 3 li: 7.0 xi: 3.5 bow of i: 0.0 tail of i: 7.0 gama_i0: 5.0 gama_i1: 5.0
710 .0 gama_i1 + 1: 6.0 gama_i1 - gama_i0: 0.0 duration_time_i: 1.0 demand_i: 60.0 work load_i:
711 60.0 work load gap_i: 0
712 V_id: 4 li: 9.0 xi: 23.5 bow of i: 19.0 tail of i: 28.0 gama_i0: 3.0 gama_i1: 6
713 .0 gama_i1 + 1: 7.0 gama_i1 - gama_i0: 3.0 duration_time_i: 4.0 demand_i: 160.0 work
714 load_i: 160.0 work load gap_i: 0
715 V_id: 5 li: 9.0 xi: 4.5 bow of i: 0.0 tail of i: 9.0 gama_i0: 6.0 gama_i1: 8.0
716 .0 gama_i1 + 1: 9.0 gama_i1 - gama_i0: 2.0 duration_time_i: 3.0 demand_i: 140.0 work load_i:
717 140.0 work load gap_i: 0
718 V_id: 6 li: 4.0 xi: 2.0 bow of i: 0.0 tail of i: 4.0 gama_i0: 0.0 gama_i1: 2.0
719 .0 gama_i1 + 1: 3.0 gama_i1 - gama_i0: 2.0 duration_time_i: 3.0 demand_i: 160.0 work load_i:
720 160.0 work load gap_i: 0
721 V_id: 7 li: 5.0 xi: 9.5 bow of i: 7.0 tail of i: 12.0 gama_i0: 2.0 gama_i1: 2.0
722 .0 gama_i1 + 1: 3.0 gama_i1 - gama_i0: 0.0 duration_time_i: 1.0 demand_i: 60.0 work load_i:
723 60.0 work load gap_i: 0
724 V_id: 8 li: 8.0 xi: 4.0 bow of i: 0.0 tail of i: 8.0 gama_i0: 3.0 gama_i1: 4.0
725 .0 gama_i1 + 1: 5.0 gama_i1 - gama_i0: 1.0 duration_time_i: 2.0 demand_i: 160.0 work load_i:
726 160.0 work load gap_i: 0
727 V_id: 9 li: 6.0 xi: 12.0 bow of i: 9.0 tail of i: 15.0 gama_i0: 6.0 gama_i1: 8
728 .0 gama_i1 + 1: 9.0 gama_i1 - gama_i0: 2.0 duration_time_i: 3.0 demand_i: 160.0 work
729 load_i: 160.0 work load gap_i: 0
730 V_id: 10 li: 6.0 xi: 11.0 bow of i: 8.0 tail of i: 14.0 gama_i0: 3.0 gama_i1: 1
731 : 5.0 gama_i1 + 1: 6.0 gama_i1 - gama_i0: 2.0 duration_time_i: 3.0 demand_i: 160.0 work
732 load_i: 160.0 work load gap_i: 0
733 V_id: 11 li: 5.0 xi: 9.5 bow of i: 7.0 tail of i: 12.0 gama_i0: 0.0 gama_i1: 1
734 .0 gama_i1 + 1: 2.0 gama_i1 - gama_i0: 1.0 duration_time_i: 2.0 demand_i: 140.0 work
735 load_i: 140.0 work load gap_i: 0
736 V_id: 12 li: 3.0 xi: 17.5 bow of i: 16.0 tail of i: 19.0 gama_i0: 0.0 gama_i1: 1
737 : 3.0 gama_i1 + 1: 4.0 gama_i1 - gama_i0: 3.0 duration_time_i: 4.0 demand_i: 140.0 work
738 load_i: 140.0 work load gap_i: 0
739
740 Algorithm finished and the total CPU time: 349 s
741 End
742
743

```